Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

U-21256

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -------

1a. TYPE OF WORK
DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

7. UNIT AGREEMENT NAME: -------

b. TYPE OF WELL
OIL WELL [ ] GAS WELL [XX] OTHER SINGLE ZONE [XX] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME: Johnson Creek Fed.

2. NAME OF OPERATOR: CHANDLER & ASSOCIATES, INC.

9. WELL NO.: 6-33

3. ADDRESS OF OPERATOR: 1401 Denver Club Bldg., Denver, Colorado 80202

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 2047' FWL; 1988' FNL (SE NW)
At proposed prod. zone: SAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 33-35S-22E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approx. 5.9 miles northwest of Blanding, Utah

12. COUNTY OR PARISH: San Juan
13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
620'	240	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
NONE	6400' Desert Creek	Rotary - all

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6775' GR

22. APPROX. DATE WORK WILL START*: August 28, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½"	13-3/8"	54.5#	500'	675 sx
7-7/8"	5½"	15.5#	6400'	300 sx

1. Drill to TD of 6400' (Desert Creek)
2. Run 5½" casing if commercial production is indicated.
3. If dry hole, plug and abandon as instructed by the USGS.
4. Well will be drilled with mud (low solids, non-dispersed) , tested and 5½" casing run to TD.
5. Well control equipment will include double hydraulic system of 900 Series, a fillup line will be installed, equipment pressure tested before drilling out from under surface and equipment mechanically checked daily.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8-16-82
BY: [signature]

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED James Rowland TITLE Petroleum Engineer DATE August 12, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

REHABILITATION PLAN

Lease No.: _____; Well Name and No.: Johnson Ck Fed. 6-33
Location: SE NW, Sec. 33, T. 35 S., R. 22 E.

Chandler & Assoc. intends to drill a well on surface owned by Pearl Bayles. The lessee/operator agrees to complete the following rehabilitation work if the well is a producer:

☑ Yes ☐ No Maintain access road and provide adequate drainage to road.

☑ Yes ☐ No Reshape and reseed any area not needed for maintenance of the pump and support facilities.

Other requirements: _____

The following work will be completed when the well is abandoned:

☑ Yes ☐ No Pit will be fenced until dry, then filled to conform to surrounding topography.

☐ Yes ☑ No Water bars will be constructed as deemed necessary.

☑ Yes ☐ No Site will require reshaping to conform to surrounding topography.

☑ Yes ☐ No Entire disturbed area will be reseeded. If yes, the following seed mixture will be used.

7 lbs/acre Crested Wheatgrass (Fall Planting)

☑ Yes ☐ No Access road will be closed, rehabilitated and reseeded using the same seed mixture as above.

☑ Yes ☐ No Access road will remain for surface owner's use.

☑ Yes ☐ No Water bars will be constructed on the access road as deemed necessary.

Other requirements: _____

Surface Owner:

Name: Pearl Baylas
Address: 105 3rd South
City: Blanding
State: Utah
Telephone: 678-2301
Date: _____

Operator/Lessee:

Name: Chandler & Assoc
Address: 1401 Denver Club Bldg.
City: Denver
State: Colo.
Telephone: 629-6256
Date: 6/9/82

I CERTIFY that above rehabilitation plan is acceptable to me.

Surface Owner Compensation
$4,000 /location Damage
$ 5.00/Rd. Rd. Damages
DJJ

Pearl Bayles
Grant Bayles By Donald Bayles
(Surface owner's signature)
GRANT BAYLES for Pear Baylas

This plan does not affect any other agreements between the lessee/operator and surface owner.

August 12, 1982

U.S. Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104
ATTN: Edgar W. Guynn

RE: Johnson Creek Federal 6-33
SE NW Sec. 33-35S-22E
San Juan County, Utah

Dear Mr. Guynn:

Enclosed is the additional information required for permitting the above captioned well:

1.	Surface Formation	Dakota
2.	Geological Markers	Navajo 1275' Wingate 1990' Moenkopi 3025' Hermosa 3025' Upper Ismay 6005 Lower Ismay 6150' Desert Creek 6240'
3.	Producing Formation	Desert Creek
4.	Casing Program	Surface: 13-3/8", 54.5#, K-55, New Production: 5½", 15.5#, K-55, New
5.	Blowout Preventor	(a) Shagger 10" 900 double hydraulic with Payne closing unit. One set rams blind and one set for 4½" drill pipe; tested upon installation and daily. (b) 10" 900 rotary head for use while air or mud drilling. Schematic diagram attached.
6.	Circulating Medium	Well will be drilled with mud (low solids, non-dispersed).
7.	Auxiliary Equipment	(a) Drill String Floats will be used. (b) Float will be used. (c) Stabbing valve will be used for drill pipe.

8.	Evaluation Program	DST at discretion of wellsite geologist. If encouraging DST results then possible 60' core. A DIL with MSFL-SP, BHC-GR, FDC-CNL-GR and Dipmeter will be used for logging. Should this evaluation program indicate commercial quantities of hydrocarbons are in place, casing will be set.
9.	Potential Hazards	No abnormal high pressure, temperatures or hydrogen sulfide gas should be encountered. Productive zone is normal in pressure and gas analysis indicate no H_2S hazard.
10.	Starting Date	The anticipated starting date is August 28, 1982, with operations being conducted for 25 days.

Please notify us if any additional information is necessary for the permitting of this well.

Sincerely yours,

CHANDLER & ASSOCIATES, INC.

James Rowland
Petroleum Engineer

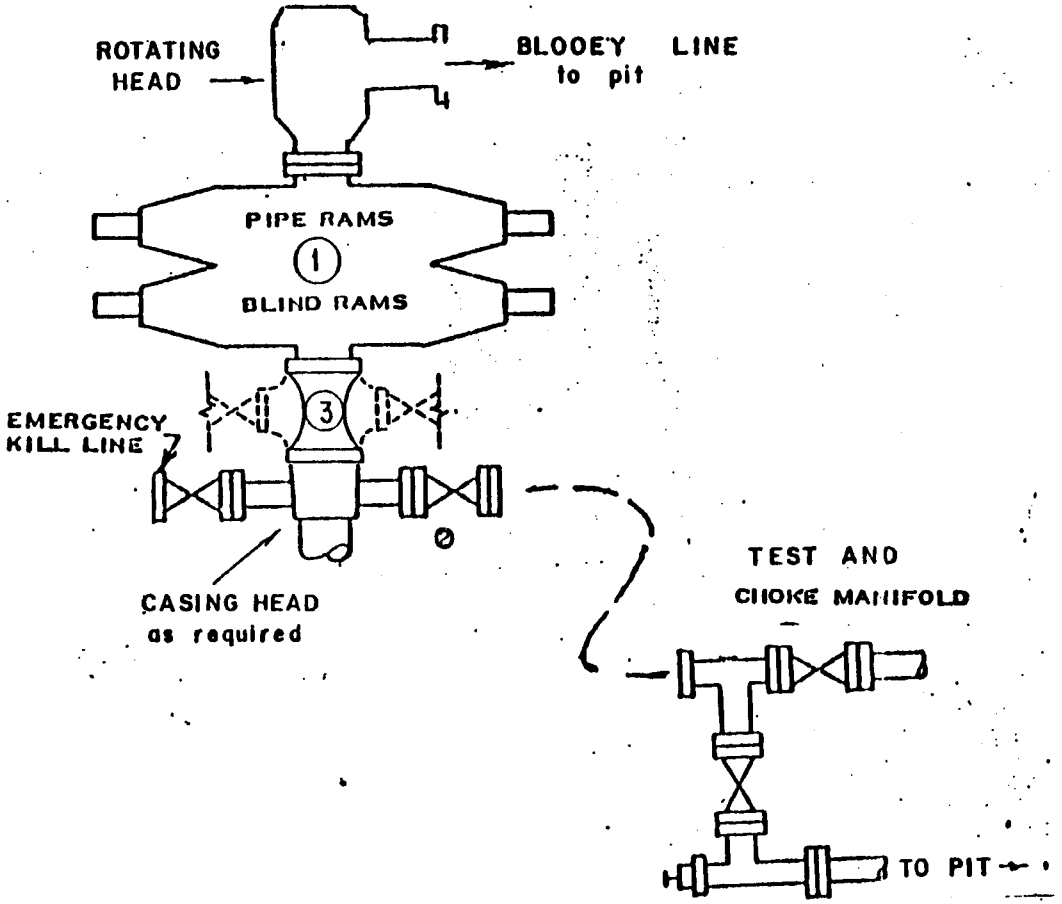
Attachment
MS

DOUBLE PREVENTER

FOR

AIR DRILLING

① SERIES 900 RAM-TYPE BOP
② 2" SERIES 900 VALVE
③ SERIES 900 DRILLING SPOOL



..... OPTIONAL EQUIPMENT

CHANDLER AND ASSOCIATES, INC.

3000 PSI WORKING PRESSURE
BLOWOUT PREVENTER HOOK-UP

(SERIES 900 FLANGES OR BETTER)

Rev. 12/77

FIGURE NO. 4

Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

BLM Report ID No: 4 10

Report Acceptable Yes __ No __

Mitigation Acceptable Yes __ No __

Comments: _____

1. Report Title Job Onsite GK Field #6-33 Well & Rd (11-40)

2. Development Company Chandler & Associates, Inc.

3. Report Date 8 10 (MONTH 41 42) 1982 (YEAR 43 46) 4. Antiquities Permit No. #82-UT-128

5. Responsible Institution GOBLIN KNOLL RANGER DISTRICT (47 61) County San Juan

6. Fieldwork Location: TWN 35S (62 65) Range 22E (66 69) Section(s) 33 (70 71 72 73 74 75 76 77)

TWN (78 81) Range (82 85) Section(s) (86 87 88 89 90 91 92 93)

7. Resource Area SJ (110 111) TWN (94 97) Range (98 101) Section(s) (102 103 104 105 106 107 108 109)

PO=PONY EXPRESS, BR=BEAR RIVER, PR=PRICE RIVER, WS=WARM SPRINGS
BC=BOOK CLIFFS, HR=HOUSE RANGE, SE=SEVIER RIVER,
HM=HENRY MOUNTAINS, BE=BEAVER RIVER, DX=DIXIE
KA=KANAB, ES=ESCALANTE, SJ=SAN JUAN, GR=GRAND
SR=SAN RAFAEL, DM=DIAMOND MOUNTAIN,

Fill in spaces 65,69,81,85,97,101 Only if:
V=Vernal Meridian
H=Half Township

8. Description of Examination Procedures: 100% pedestrian survey by L.M. Viola of 100-ft./30m access road r-o-w and 2-acre well location. Road was centerline staked and well location was center and corner staked. Record photos were taken of the area (GK-82-12:1-2). Survey transects were between 5 and 10 m wide; each transect was covered in a zig-zag pattern by the surveyor. Lit. Search 7/27/82 - nothing recorded in section 33. Pre-field check - no surveys in section 33, the nearest recorded sites lie ca. 1 mile northwest in sections 17,18 & 20, consisting of a dense group of Anasazi unit type habitation sites (42 SJ5632-46), recorded by the BLM in 1976 & considered to be potentially significant. Mini-permit sent 7/27/82 & Post-field check 8/2

9. Linear Miles Surveyed and/or 03 (112 117)

Definable Acres Surveyed and/or 2 (118 123)

*Legally Undefinable Acres Surveyed (124 129)

(*A parcel hard to cadastrally locate i.e., center of section)

10. Inventory Type I (130)

R=Reconnaissance
I=Intensive
S=Statistical Sample

12. Number Sites Found: 0 (131 135) No sites=0

13. Collection: N (136) Y=Yes, N=No

11. Description of Findings (attach appendices, if appropriate)
Four isolated flakes were recorded at the north and south edges of the well pad - see attached IF form GK-82-UT-4 & map; not eligible for NRHP nomination. Recent cultural remains/ disturbance include existing roads, fences, uprooted and burnt trees, survey staking and trash.

14. Actual/Potential National Register Properties Affected:

NONE

15. Conclusion/Recommendations:
As no significant cultural resources are located within the proposed development zones, it is recommended that Chandler & Associates be granted cultural resource clearance to proceed with the construction of the Johnson Creek Federal 6-33 well location and access road as planned. Should subsurface cultural remains be encountered during construction, work should be halted and the BLM Monticello Office notified.

16. Signature and Title of Institutional Officer Responsible Signed Kris Kranzush, Principal Investigator
Laura Viola, Staff Archaeologist in charge of field-work

Attached: Project Map
GK-82-UT-4 IF Form

XC: BLM - Moab & Monticello

Note: Include only requested information in numbered spaces.
* For extra locationals use additional 8100-3 forms.

Ut 8100-3 (1/80)
Utah Div. of State History
~~Chandler & Associates, Inc.~~

Gordon & Kranzush, Inc.
2920 Pearl Street • Boulder, Colorado 80301 • (303) 443-4490
Cultural Resource Services

August 10, 1982

Area Manager, San Juan Resource Area
ATTN: Chas. Cartwright, Archaeologist
Bureau of Land Management
San Juan Resource Area
P.O. Box 7
Monticello, Utah 84535

To Whom It May Concern:

On July 28, 1982, Laura M. Viola, Staff Archaeologist for Gordon & Kranzush, Inc., conducted a 100 percent pedestrian cultural resources inventory of the proposed Johnson Creek Federal #6-33 well location and access road. The inventory was conducted at the request of Chandler and Associates, Inc. The location of the proposed drill site and access road are as follow:

> Johnson Creek Federal #6-33 and Access: Portions of the SE 1/4 of the NW 1/4, Section 33, T35S, R22E, S.L.B. and M., San Juan County, Utah; well site size: 300' X 180' (0.7 ac.); access road area: 1600' X 100 ' (3.7 ac.).

The proposed impact and inventory areas are indicated on the attached Project Area Map. This report is being submitted in compliance with point number 3 in your August 6, 1982 communication regarding cultural resources inventories in the San Juan Resource Area.

The center and corners of the proposed drill site and the centerline of the proposed access road were staked by Uintah Engineering, Inc. The cultural resources inventory was conducted by walking parallel zig-zag transects spaced between 5 and 10 meters apart throughout a two acre area surrounding the centerstake of the proposed well site, and for 50 feet on either side of the staked access centerline. Cultural evidence was sought in the forms of surface debris, structural remains and unnatural environmental disturbances. When evidence of cultural activity was encountered, the survey transect was abandoned, and the immediate vicinity was examined to determine the nature and extent of the resource. Artifacts were marked with pin flags, and resource and environmental characteristics were recorded. G&K defines an isolated find, the only type of cultural resource identified during this investigation, as the occurrence of from one to five artifacts with no associated features or structural remains, which cannot be demonstrated to be within close enough proximity to a site to allow association to be hypothesized.

On July 27, 1982, Liz Manion of the Utah Division of State History was requested to conduct a literature search for the project area, and she reported that no cultural resources had been recorded in the survey area prior

to this investigation. A pre-field check of base maps and site files maintained in the BLM San Juan Resource Area Office was conducted by L.M. Viola on July 28, 1982. These records showed that no cultural resource inventories had been performed and no sites had been recorded in Section 33 prior to the date of survey. Don Alrad of Uintah Engineering contacted the landowner on July 28, 1982 and obtained permission for both staking and cultural resource inventory.

BLM Form 8100-1 and an Isolated Find Form for GK-82-UT-4 are attached to this document. Please refer to these forms for additional information concerning the inventory.

The project area is located within a small, intermittent drainage valley which trends south toward Big Canyon, a tertiary tributary of the San Juan River. Broad ridge features separate the project area from Johnson Creek Canyon to the north. The proposed well location is situated on a small, flat to gently sloping bench above the intermittent drainage, and the access road climbs a hill slope to the south and turns east across a ridge shoulder to join an existing road at the ridgetop east of the well (see Project Area Map).

The dominant vegetation community of the area appears to have been pinyon-juniper forest, however, extensive surface disturbance has somewhat altered the natural vegetation communites. Broad, flat areas above and east of the project area location presently consist of cultivated fields, but likely once supported sagebrush and/or grasslands, or possibly, stands of pinyon and juniper. The well location and its immediate vicinity appear to have been covered by forest at one time, though the area has apparently been cleared and burned. The project area presently supports grasses, sagebrush, juniper seedlings, oakbrush, yucca and other shrubs and forbs. Some forested areas remain on elevated features to the north of the project area. Fauna noted or inferred to be in the vicinity include small rodents, lizards, and deer.

Lithic formations of the region include sandstones, shales and conglomerates of the Dakota formation. Naturally fractured chert pebbles were also noted in the project area. Soils are red to buff, sandy to silty loams. Ground surface visibility ranged from 20 to 100 percent depending upon the extent of previous disturbance and current vegetation. Soil deposition within the project area appears to be minimal, judging from numerous, large bedrock exposures.

Only very limited evidence of prehistoric cultural activity was noted during the inventory. Isolated Find GK-82-UT-4 consists of four chert and quartzite flakes recorded at the edge of the proposed well site within the access road right-of-way. The flakes occur in an area of minimal soil depth, adjacent to bedrock exposures. No features such as hearths, stone alignments or mounds were encountered in the immediate vicinity of the flakes. None of the artifacts appeared to be modified.

Numerous Anasazi sites ranging in age from Basketmaker II through Pueblo III and one sweatlodge (probably Navajo) have been recorded within one to three miles of the project area to the northwest, southwest and east. Previous inventories in these areas covered much larger ground surfaces than

that of the present investigation and encountered a very high density of prehistoric resources. Judging from the upland locations and/or association with major drainages exhibited by the previously recorded sites, similar manifestations may be located east and northwest of, and above this survey area. The four flakes recorded in the Johnson Creek Federal #6-33 project area may represent tool manufacturing associated with either the Anasazi or Navajo occupations of the region.

It is possible that additional structural, feature or artifactual remains once existed in the vicinity of Isolated Find GK-82-UT-4, but were destroyed as a result of the extensive surface disturbance noted in the project area. It is believed that the minimal soil depth in the well site area would preclude the existence of any additional, buried cultural deposits in the survey area. The access road is located primarily on a very steep slope and the likelihood that any additional cultural items occur in the access alignment is very low. The four flakes comprising IF GK-82-UT-4 can contribute very little significant information regarding prehistoric utilization of the region, and are recommended as ineligible for nomination to the National Register of Historic Places.

No historic (pre-AD 1932) cultural resources were located during the survey of Chandler and Associates Johnson Creek Federal #6-33. It is likely that historic period activities within the region included agricultural and ranching activities, which have continued to the present. Recent cultural remains noted in or adjacent to the project area include roads, fences, miscellaneous trash and surveyors' markings.

Insomuch as the literature search, prefield check and pedestrian survey of the Chandler and Associates, Inc. Johnson Creek Federal #6-33 well location and access road indicate that no cultural resources which are considered eligible for nomination to the National Register of Historic Places will be affected by the proposed actions, it is recommended that Chandler and Associates, Inc. be authorized to proceed with construction as planned. In the unlikely event that subsurface cultural remains are encountered during construction or drilling, it is recommended that ground disturbance cease and the BLM San Juan Resource Area be contacted to ensure proper recordation and evaluation of any such finds.

Please contact me if you have any questions regarding this investigation and report. Thank you for your time in consideration of this matter.

Sincerely,

Laura M. Viola
Staff Archaeologist

GORDON & KRANZUSH, INC.

attachments: BLM 8100-1
Isolated Find Form GK-82-UT-4

xc: ~~Chandler and Associates, Inc.~~
Moab District Office
Utah Division of State History

COLORADO PRESERVATION OFFICE
1300 Broadway
Denver, CO 80203
(303) 839-3391

ISOLATED FIND RECORD

1) OSAC Site No.: GK-82-UT-4 (2) Temp. No.: _____ 3) County San Juan, Utah

I. LOCATION

4) Legal Location: NE ¼ SE ¼, SE ¼ SW ¼, SE ¼ SE ¼, NW ¼ NW ¼, & Sec. 33 T 35S R 22E PM S.L.B.&M.

5) USGS Quad: Name Brushy Basin Wash, Utah Size 15' Date 1957

6) UIM: Zone 12, 6 3 1 1 2 5 mE, 4 1 7 2 6 5 0 mN. Attach copy of portion of USGS Quad.

II. ARCHAEOLOGICAL DATA:

7) Artifacts:
1 White chert secondary decortation flake
1 White quartzite interior percussion flake
1 Gray chert interior percussion flake
1 Gray/white mottled chert interior percussion flake

8) Inferred function/description:
Detritus from tool manufacture

9) Cultural Affiliation Unknown aboriginal Time Period Unknown BC AD

10) IF Dimensions 110 m X 20m

III. ENVIRONMENTAL DATA:

11) Elev. 6800 ft. 2073 m. 12) Soil Red sandy loam

13) Topography small intermittent drainage valley 14) Slope: site 3-5% surrounding 0-45%

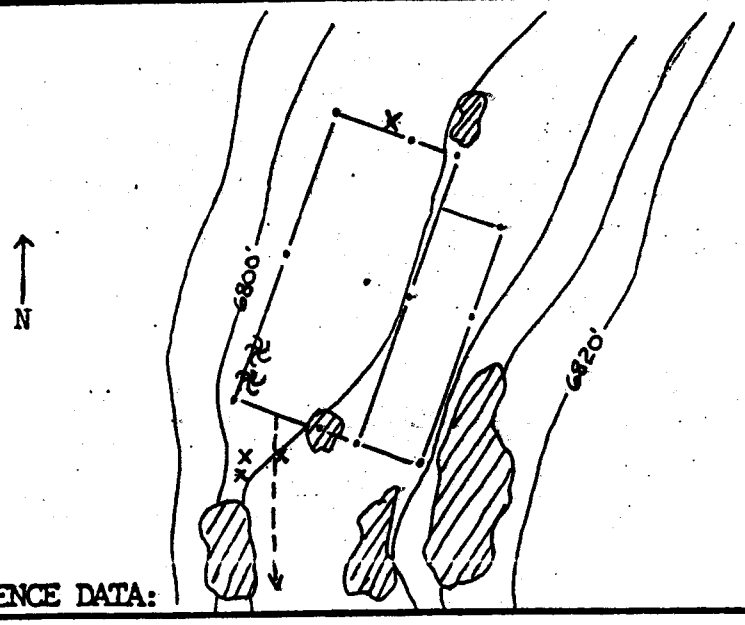
15) Nearest water: name/nature Unnamed intermittent elev. 6640' dist. 1.1km direction WSW

Nearest permanent water, Unnamed spring elev. 6635' dist. 2.5km direction SW

16) Veg. on site gambel's oak, sagebrush, grasses 17) Surrounding veg. same plus yucca, juniper

Additional Comments: Flakes are located in an area of shallow soil deposition with numerous bedrock exposures in the vicinity. The surface has been disturbed, vegetation has been removed and uprooted. Any further cultural materials, if these existed, are likely also removed and/or destroyed. This IF is recommended not eligible to the NRHP due to lack of diagnostics, paucity of materials, low potential for further intact remains, and extensive surface disturbance.

IV. ADDITIONAL INFORMATION: (Narrative, drawings, sketch map)



KEY:
X Flake
Well location corner stakes
Bedrock exposures
Gambel's Oak
Contour Interval: 5'
--- Proposed access road centerline

Scale: 1 cm = 25 m

V. REFERENCE DATA:

18) Collection: yes ___ no X describe _____

19) Repository: NA 20) Landowner Kelly Bayles, Green River, Utah or Pearl Bayles, Blanding, Utah

21) Report title Johnson Creek Fed #6-33 Well & Road 22) Recorder Laura Viola

23) Affiliation Gordon & Kranzush, Inc., Boulder, CO. 24) Date July / 28 / 1982

Form No. 602

PROJECT AREA PROVENIENCE MAP

Chandler & Associates, Inc.

Johnson Creek Federal #6-33 Well

Location & Access Road

N3730—W10930/15

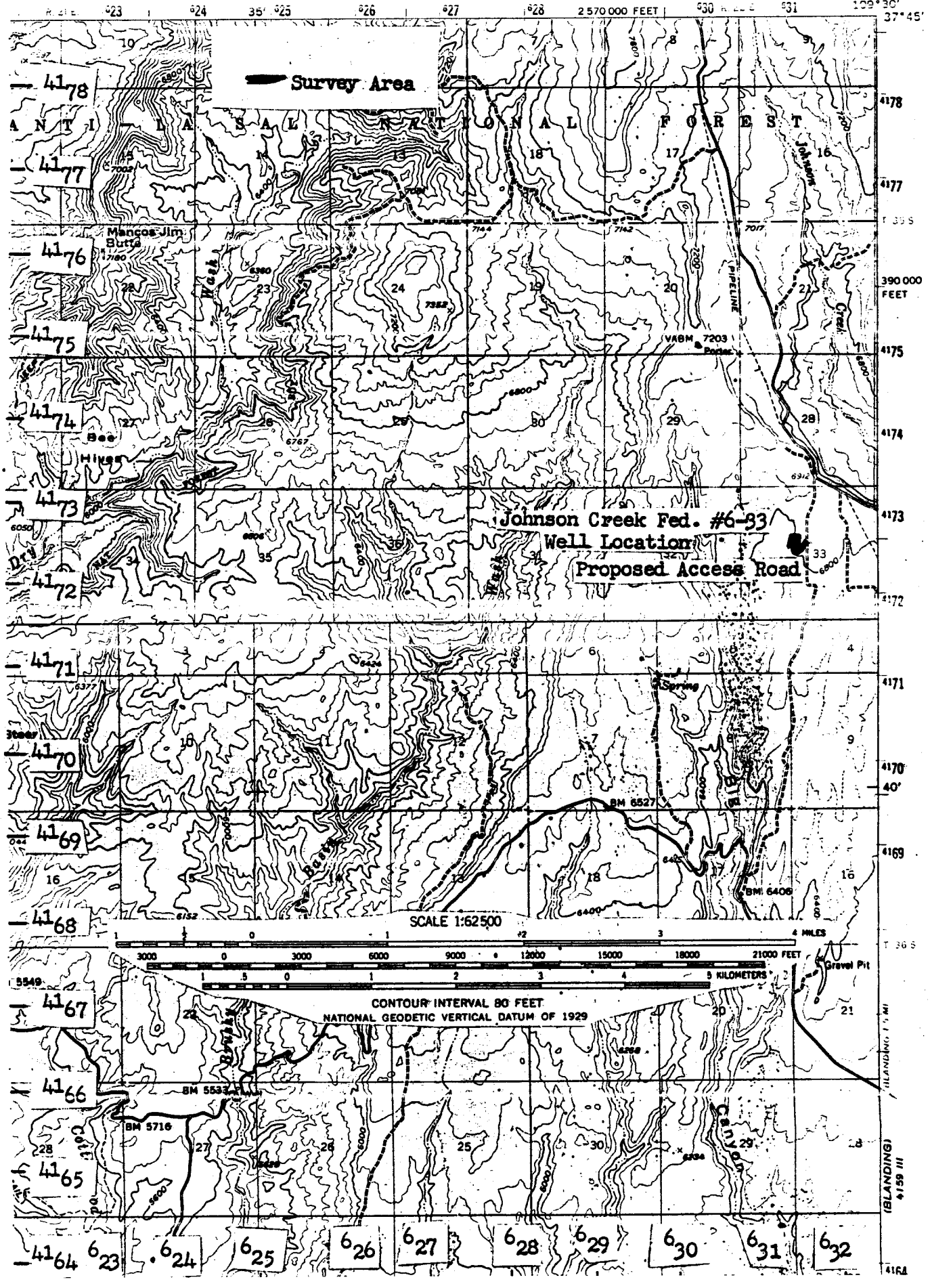
1957

AMS 4059 II—SERIES V797

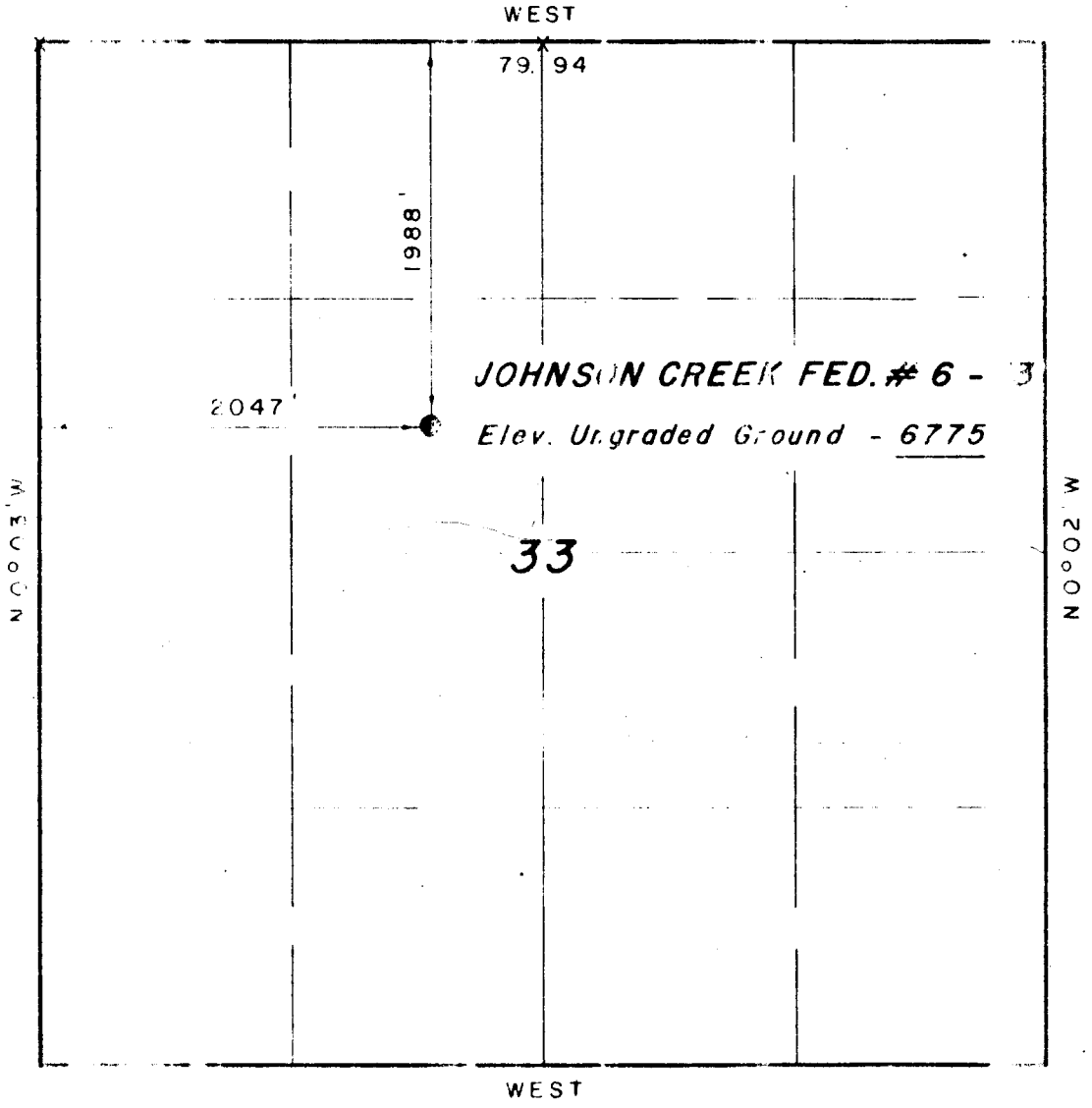
BRUSHY BASIN WASH QUADRANGLE

UTAH-SAN JUAN CO.

15 MINUTE SERIES (TOPOGRAPHIC)



T 35 S, R 22 E, S.L.B.&M.



X = Section Corners Located

PROJECT

CHANDLER & ASSOCIATES INC.

Well location, *JOHNSON CREEK FED. # 6 - 33*, located as shown in the SE 1/4 NW 1/4 Section 33, T 35 S, R 22 E, S.L.B. & M. San Juan County, Utah.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P O BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	7/29/82
PARTY	DA RS DH LZ	REFERENCES	GLO Plat
WEATHER	Clear / Warm	FILE	CHANDLER

Identification No. 457-82

United States Department of the Interior
~~Geological Survey~~ MMS
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS
RECEIVED
AUG 25 1982
SALT LAKE CITY, UTAH

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Chandler & Assoc., Inc.

Project Type single zone oil exploration well

Project Location 1998' FWL / 2647' FWL, sec. 22, T. 35 S., R. 22 E. SE NW San Juan, Utah

Well No. 6-22 Johnson Canyon Fed Lease No. U-21256

Date Project Submitted _____

FIELD INSPECTION Date August 9, 1982

Field Inspection Participants

Dave Burnett/Carl Winters/Cotton Fladeland
Tim Wells - Chandler & Assoc.
Don Allred/John Kay - Surveyor - Uinta Engineering
Bill Cartonio - C & C Construction
Grant Bayles - (a access road) (Pearl A. Bayles) Farmer
Don Englishman - MMS

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

August 9, 1982
Date Prepared

Donald Englishman
Environmental Scientist

I concur

8/25/82
Date

E. W. Gynn
District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency: Correspondence (date)	Federal/State Agency: Phone check (date)	Federal/State Agency: Meeting (date)	Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
1. Public health and safety						✓ 1	✓ 2		(
2. Unique characteristics							✓ 2		
3. Environmentally controversial							✓ 2		
4. Uncertain and unknown risks							✓ 2		
5. Establishes precedents							✓ 2		
6. Cumulatively significant							✓ 2		(
7. National Register historic places	✓ 1								
8. Endangered/ threatened species	✓ 1								
9. Violate Federal, State, local, tribal law						✓ 1	✓ 2		

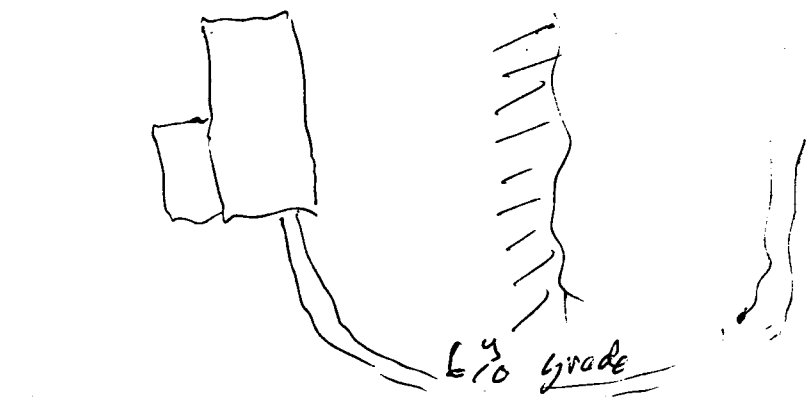
CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application for Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement

Remarks:

1. Water source privately owned (Dolores)
2. Location not cleared as staked

2. Location:



** FILE NOTATIONS **

DATE: 8-18-82

OPERATOR: Chandler & Assoc. Inc.

WELL NO: Johnson Creek Fed #6-33

Location: Sec. SE NW 33 T. 35S R. 22E County: ~~Emery~~ San Juan

File Prepared: ✓ Entered on N.I.D: ✓

Card Indexed: ✓ Completion Sheet: ✓

API Number 43-037-30864

CHECKED BY:

Petroleum Engineer: _____

Director: _____

Administrative Aide: ok Jean L Doucette

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐

Order No. _____ O.K. Rule C-3 ✓

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐ 40 ac

Lease Designation Fed. Plotted on Map yes

Approval Letter Written ☐

Hot Line ✓ P.I. ✓

August 18, 1982

Chandler & Associates, Inc.
1401 Denver Club Bldg.
Denver, Colorado 80202

RE: Well No. Johnson Creek Fed. 6-33
SENW Sec. 33, T. 35S, R. 22E
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Engineer Office: 533-5771 Home: 571-6068	OR	CLEON B. FEIGHT - Director Office: 533-5771 Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30804.

Sincerely,

Norman C. Stout
Administrative Assistant

NCS/as
cc: Minerals Management Service
Enclosure

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS
RECEIVED
Aug 16 1982
SALT LAKE CITY, UTAH

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-21256

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -------

7. UNIT AGREEMENT NAME: -------

1a. TYPE OF WORK: DRILL [XX] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [XX] OTHER — SINGLE ZONE [XX] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME: Johnson Creek Fed.

2. NAME OF OPERATOR: CHANDLER & ASSOCIATES, INC.

9. WELL NO.: 6-33

3. ADDRESS OF OPERATOR: 1401 Denver Club Bldg., Denver, Colorado 80202

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 2047' FWL; 1988' FNL (SE NW)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 33-35S-22E

At proposed prod. zone: SAME

12. COUNTY OR PARISH: Emery

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approx. 5.9 miles northwest of Blanding, Utah

RECEIVED
AUG 31 1982
DIVISION OF OIL, GAS & MINING

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
620'	240	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
NONE	6400'	Rotary - all

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6775' GR

22. APPROX. DATE WORK WILL START*: August 28, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17½"	13-3/8"	54.5#	500'	675 sx
7-7/8"	5½"	15.5#	6400'	300 sx

1. Drill to TD of 6400' (Desert Creek)
2. Run 5½" casing if commercial production is indicated.
3. If dry hole, plug and abandon as instructed by the USGS.
4. Well will be drilled with mud (low solids, non-dispersed) , tested and 5½" casing run to TD.
5. Well control equipment will include double hydraulic system of 900 Series, a fillup line will be installed, equipment pressure tested before drilling out from under surface and equipment mechanically checked daily.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED James W. Rowland / James Rowland TITLE Petroleum Engineer DATE August 12, 1982

(This space for Federal or State office use)

PERMIT NO. ---------- APPROVAL DATE ----------

APPROVED BY ---------- FOR E. W. GUYNN TITLE DISTRICT OIL & GAS SUPERVISOR DATE AUG 25 1982

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL
State O & G

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

CULTURAL RESOURCE PROVENIENCE MAP

Chandler & Associates, Inc.

Johnson Creek Federal #6-33 Well
Location & Access Road

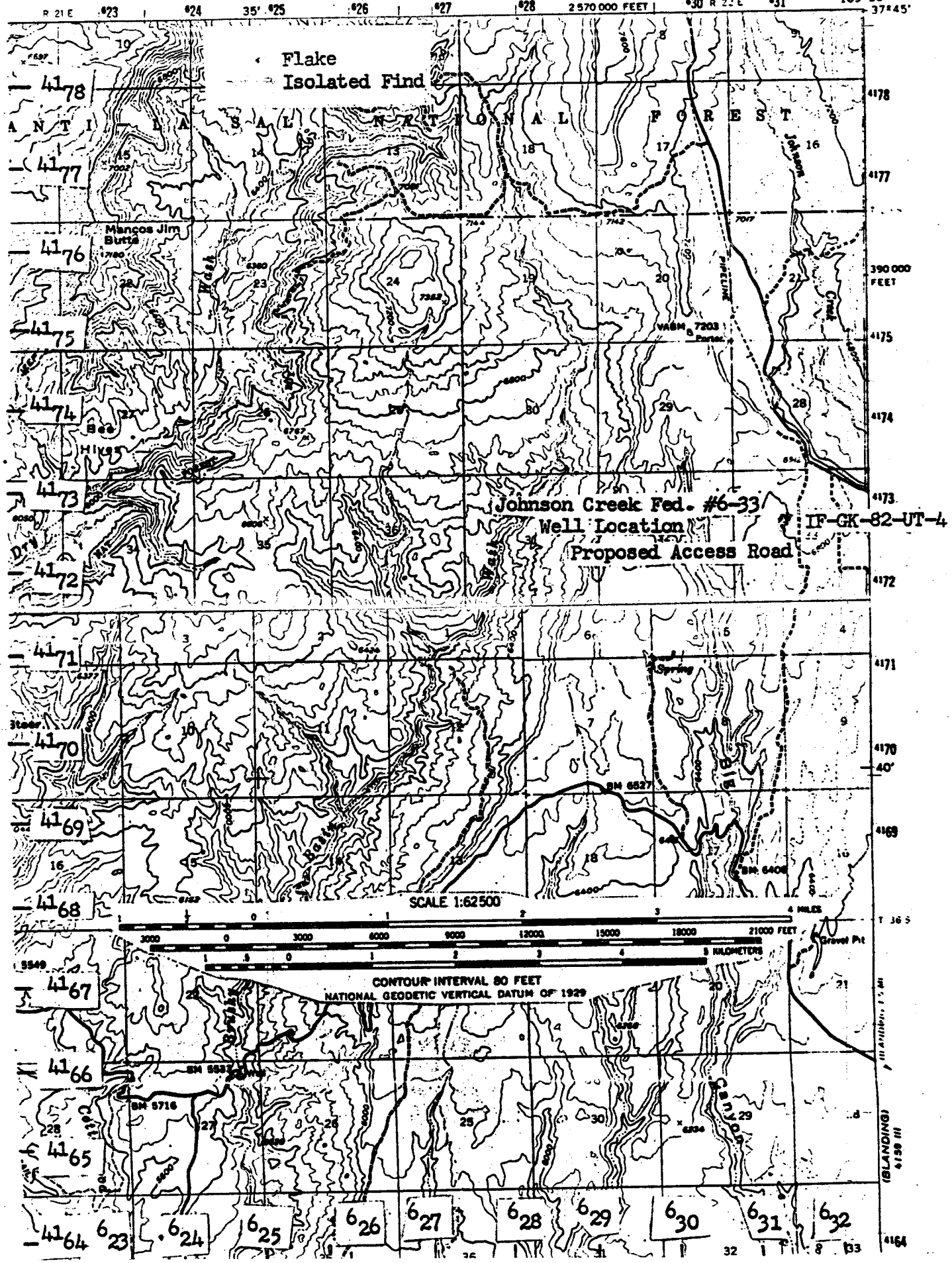
1957

AMS 4059 II—SERIES V797

BRUSHY BASIN WASH QUADRANGLE
UTAH—SAN JUAN CO.

15 MINUTE SERIES (TOPOGRAPHIC)

4139 IV
MONTICELLO



Well Test Report # 42954 E

— FOR —

CHANDLER & ASSOCIATES, INC.

Well Name & No.: JOHNSON CREEK FEDERAL #6-33

County SAN JUAN State UTAH

Test No. 1 Date 10-21-82

Location SEC. 33 T35S R22E

DST BASIC DATA Report

Johnston-Macco
A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION

JOHNSTON-MACCO

Schlumberger

ISTRIBUTION FOR TECHNICAL REPORTS

-223-A

FIELD REPORT NO. 42954 E

DATE 10-21-82

COMPANY	WELL	NO.
CHANDLER & ASSOCIATES, INC.	JOHNSON CREEK FEDERAL	6-33
CUSTOMER	FIELD	
SAME	WILDCAT	
COUNTY	STATE	
SAN JUAN	UTAH	

☐ THIS TEST ONLY ☒ ALL TESTS ON THIS WELL

JOHNSTON-MACCO HAS BEEN REQUESTED TO FURNISH THE FOLLOWING COMPANIES WITH TECHNICAL REPORTS. THIS DISTRIBUTION WILL BE AS INDICATED AT LEFT UNLESS OTHERWISE STATED.

1	UTAH DIVISION OF OIL & GAS & MINING 1588 W. NORTH TEMPLE SALT LAKE CITY, UTAH 84116	☐
4	CHANDLER & ASSOCIATES, INC. 1401 DENVER CLUB BLDG. DENVER, CO 80202	☐
2	TENNECO OIL COMPANY P.O. BOX 3249 ENGLEWOOD, CO 80155	☐
1	HUSKY OIL COMPANY 6060 S. WILLOW DR. ENGLEWOOD, CO 80111	☐
1	PENNZOIL COMPANY 1600 BROADWAY, SUITE 1800 DENVER, CO 80202	☐
1	DAVIS OIL COMPANY 410 17TH ST., SUITE 1400 DENVER, CO 80202	☐

RECEIVED
NOV 05 1982
DIVISION OF
OIL, GAS & MINING

DST BASIC DATA REPORT

TABLE OF CONTENTS

JOHNSTON-MACCO
Schlumberger

WESTERN REGION
1745 STOUT SUITE 300
DENVER, COLORADO 80202
(303) 623-0760

INTRODUCTION:

DRILL STEM TEST #1 APPEARS TO HAVE BEEN A MECHANICALLY SUCCESSFUL TEST. THE FORMATION APPEARS TO BE TIGHT.

SEQUENCE OF EVENTS:

THE INITIAL FLOW PERIOD (15 MINUTES) IS TOO LONG, ESPECIALLY IN A TIGHT INTERVAL, FOR THE PROPER IDENTIFICATION OF THE INITIAL RESERVOIR PRESSURE. IT IS RECOMMENDED THAT THE INITIAL FLOW NOT EXCEED 5 MINUTES AND THAT IT BE FOLLOWED BY A SHUT-IN 10 TO 20 TIMES AS LONG.

THIS SHORT FLOW PERIOD IS SUFFICIENT TO ELIMINATE ANY "SUPER CHARGING" AND DOES NOT REMOVE AS MUCH FLUID FROM THE RESERVOIR. FOR THE PURPOSE OF DETERMINING INITIAL RESERVOIR PRESSURE IT IS BEST TO DISTURB THE ZONE AS LITTLE AS POSSIBLE.

Stephen E Casmus

STEPHEN E. CASMUS
SENIOR SALES ENGINEER
NOVEMBER 1, 1982

JOHNSTON-MACCO
Schlumberger

DST EVENT SUMMARY

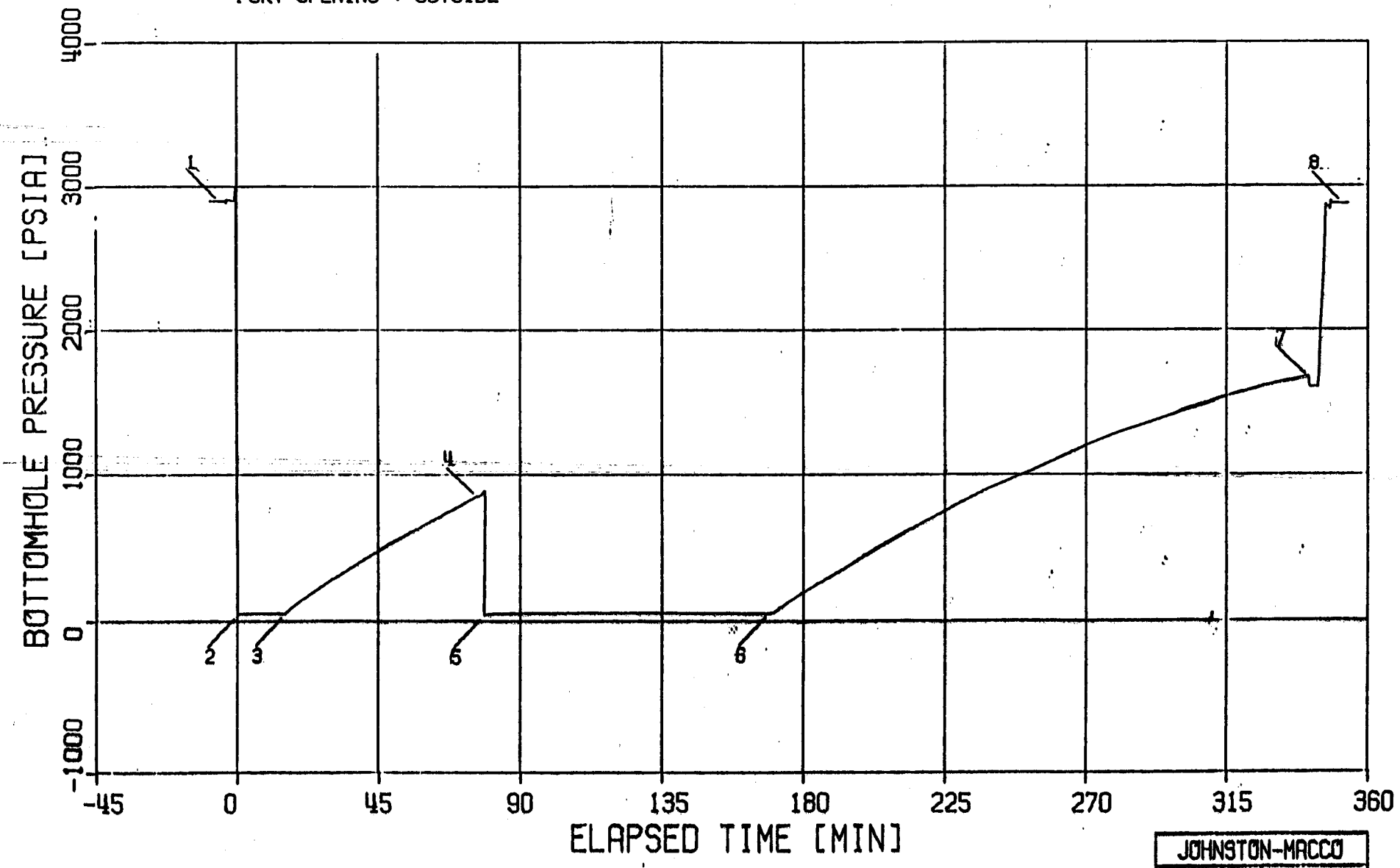
Field Report # 42954 E

DATE (M/D/Y)	TIME (HR:MIN)	EVENT E.T. (MIN)	EVENT DESCRIPTION	SURFACE PRESSURE (PSIG)	FLOOR MANIFOLD CHOKE SIZE (64ths INCH)
10-21-82	0345	—	SET PACKER (1)		
	0348	—	OPENED TEST TOOL FOR INITIAL FLOW (2)		1/8"
			SLIGHT BLOW		—
	0349		BLOW TO BOTTOM OF BUCKET		—
	0401			10 OZ	—
	0403			10.5 OZ	—
	0404	—	CLOSED TEST TOOL FOR INITIAL SHUT-IN (3)		—
	0434		BLOW DIED		—
	0504		FINISHED SHUT-IN (4)		—
	0507	—	OPENED TEST TOOL FOR FINAL FLOW (5)	15 OZ	—
	0520			14 OZ	—
	0530			11.5 OZ	—
	0540			9 OZ	—
	0550			7 OZ	—
	0600			6 OZ	—
	0610			4.5 OZ	—
	0620			3.75 OZ	—
	0630			3 OZ	—
	0637			2.5 OZ	—
	0639	—	CLOSED TEST TOOL FOR FINAL SHUT-IN (6)		—
	0929				—
	0932				—
	0929	—	FINISHED FINAL SHUT-IN (7)		—
	0932	—	UNSEATED PACKER (8)		—
		—	REVERSED OUT		
		—	BEGAN TRIP OUT OF HOLE		

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 42954E
INSTRUMENT NO. J-1117
DEPTH : 6033 FT
CAPACITY : 4700 PSI
PORT OPENING : OUTSIDE

COMPANY : CHANDLER & ASSOCIATES
WELL : JOHNSON CREEK FEDERAL #6-33



JOHNSTON-MACCO
SCHLUMBERGER

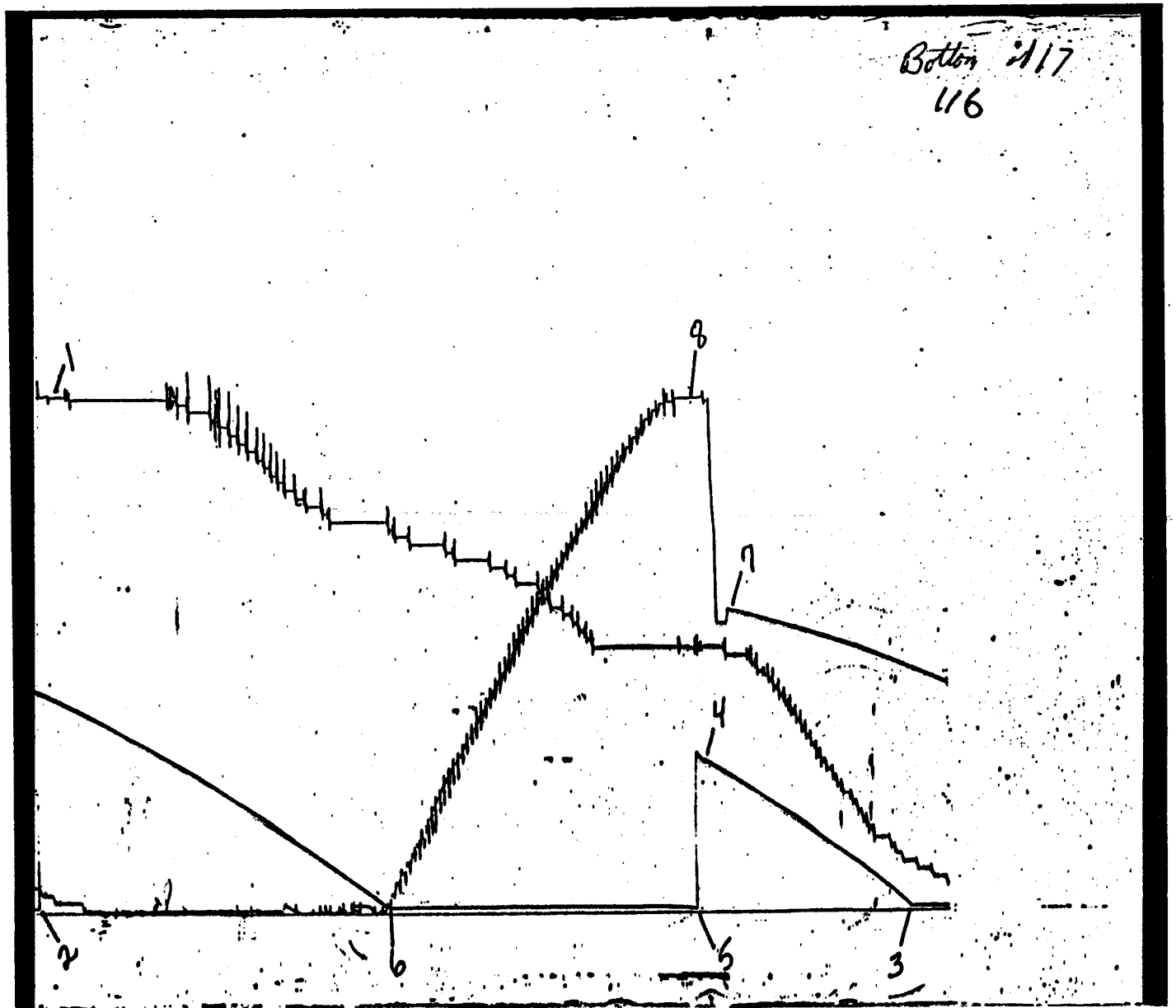
FIELD REPORT NO.: 42954 E

CAPACITY: 4700#

INSTRUMENT NO.: J-1117

NUMBER OF REPORTS: 10

JOHNSTON-MACCO
Schlumberger



JS—167-A

JOHNSTON-MACCO
Schlumberger

Field Report # 42954 E

Denver Region Office
JOHNSTON-MACCO
A DIVISION OF SCHLUMBERGER
TECHNOLOGY CORPORATION
1745 STOUT, SUITE 300
DENVER, CO 80202
PHONE: (303) 623-0760

California Division Office ... (805) 656-1805
Bakersfield ... (805) 324-5037
Long Beach ... (213) 423-1478
Ventura ... (805) 644-7391

Wyoming Division Office ... (307) 235-4683
Casper Testing, PTS, E/L (307) 266-2832
Gillette ... (307) 682-3292
Powell ... (307) 754-3581
Rock Springs ... (307) 362-3681

Ogden Testing, PTS ... (801) 621-8523
Vernal Testing ... (801) 789-3709
Dickinson Testing ... (701) 225-4451
Williston Testing ... (701) 572-9652

DST DATA SUMMARY

Company CHANDLER & ASSOCIATES Well JOHNSON CREEK FEDERAL #6-33

County SAN JUAN State UTAH

Date 10-21-82 Test # 1

Location SEC. 33 T35S R22E

HOLE	T.D. 6042 ft	Test Interval 6024 ft. to 6042 ft			
	Formation UPPER ISMAY	Packer Depths 6019, 6024 ft			
MUD	Weight 8.9 lb/gal	Resistivity 1.6 Ω-m @ 56 °F			
MUD FILTRATE	Chlorides 1700 ppm	Nitrates ____ ppm			
		Resistivity 2.0 Ω-m @ 63 °F			
REPORTED PIPE RECOVERY	Fluid 1. GAS CUT MUD (RAINBOW FILM)	% Oil ____	Length 40 ft	Volume .292 bbl	
	2. ____	____	____	____	
	3. ____	____	____	____	
	Test Tool 4. ____	____	____	____	
PIPE RECOVERY FLUID PROPERTIES	Fluid 1. Resistivity 1.5 Ω-m @ 68 °F	Chlorides 2500 ppm	Nitrates ____ ppm		
	2. ____	____	____	____	
	3. ____	____	____	____	
	Test Tool 4. ____	____	____	____	
	Oil Gravity ____ °API @ ____ °F				
SAMPLE[1] CHAMBER RECOVERY	Fluid 1. Gas ____	Volume .198 ft³	Pressure 30 psig		
	2. Oil ____	____ cc	GOR ____ scf/bbl		
	3. MUD ____	760	GLR 41 scf/bbl		
	4. ____	____	Oil Gravity ____ °API @ ____ °F		
BOTTOMHOLE PRESSURE BHT 116 °F Gauge J-1117 Depth 6033 ft	Period 1. Initial Flow ____	Duration 15 min	Pressures 50 psia	to 50 psia	
	2. Initial Shut-in ____	61	50	842	
	3. Final Flow ____	90	40	48	
	4. Final Shut-in ____	172	48	1675	
	5. ____	____	____	____	
	6. ____	____	____	____	
	Initial Hydrostatic 2905 psia		Final Hydrostatic 2884 psia		

[1]Gas Volume is Corrected to Final Flowing Pressure 48 psia

& Reservoir Temperature 116 °F

JOHNSTON-MACCO
Schlumberger

Field Report # 42955 E

Denver Region Office
JOHNSTON-MACCO
A DIVISION OF SCHLUMBERGER
TECHNOLOGY CORPORATION
1745 STOUT, SUITE 300
DENVER, CO 80202
PHONE: (303) 623-0760

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DST DATA SUMMARY

Company CHANDLER & ASSOCIATES, INC. Well JOHNSON CREEK FEDERAL #6-33

County SAN JUAN State UTAH

Date 10-25-82 Test # 2

Location SEC. 33, T35S R22E

HOLE	T.D. 6333 ft	Test Interval 6013 ft to 6043 ft
	Formation UPPER ISMAY	Packer Depths 6008, 6013 ft
MUD	Weight 9.0 lb/gal	Resistivity 1.03 Ω -m @ 68 °F
MUD FILTRATE	Chlorides 2700 ppm	Nitrates ____ ppm
		Resistivity .75 Ω -m @ 68 °F
REPORTED PIPE RECOVERY	Fluid 1. GAS CUT & WATER CUT MUD	% Oil ____ Length 210 ft Volume 1.5335 bbl
	2. ____	____ ____ ____
	3. ____	____ ____ ____
	4. ____	____ ____ ____
PIPE RECOVERY FLUID PROPERTIES	Fluid 1. Resistivity 1.03Ω -m @ 56 °F	Chlorides 2800ppm Nitrates ____ ppm
	2. ____	____ ____ ____ ____
	3. ____	____ ____ ____ ____
	4. ____	____ ____ ____ ____
	Oil Gravity ____	°API @ ____ °F
SAMPLE[1] CHAMBER RECOVERY	Fluid 1. Gas X	Volume .273 ft³ Pressure 100 psig
	2. Oil ____	____ cc GOR ____ scf/bbl
	3. WATER ____	1500 CC GLR 27 scf/bbl
	4. MUD ____	100 CC Oil Gravity ____ °API @ ____ °F
BOTTOMHOLE PRESSURE BHT 114 °F Gauge J-1117 Depth 6025 ft	Period 1. Initial Flow ____	Duration 241 min Pressures 44 psia to 143 psia
	2. Initial Shut-in ____	121 143 1647
	3. Final Flow ____	____ ____ ____
	4. Final Shut-in ____	____ ____ ____
	5. ____	____ ____ ____
	6. ____	____ ____ ____
	Initial Hydrostatic 2875 psia	Final Hydrostatic 2880 psia

[1]Gas Volume is Corrected to Final Flowing Pressure ____ psia

& Reservoir Temperature ____ °F

JOHNSTON-MACCO
Schlumberger

DST EQUIPMENT CONFIGURATION

Field Report # 42954 E

	COMPONENT	OD (IN)	ID (IN)	LENGTH (FT)	DEPTH (FT)
SURFACE	FLARE (PIT) LINE				
	FLOOR MANIFOLD	—	—	—	—
	FLOW HOSE				—
					—
					—
	CONTROL HEAD				—
	DRILL PIPE ABOVE ROTARY TABLE				R.T.
DRILL PIPE & COLLARS	DRILL PIPE	4.5	3.826	5384	5384
	DRILL COLLARS	4.5	2.75	506	5890
	REVERSE CIRCULAR SUB			1	
	DRILL COLLARS	4.5	2.75	90	5981
TEST TOOL STRING	CROSS OVER			1	
	MFE-BY PASS	5	.93	13	5995
	RECORDER			6	5996
	JAR			8	
	SAFETY JOINT			2	
	SAFETY SEAL & PACKER			8	6019
	PACKER			5	6024
	PERFORATION			9	
	RECORDER			6	6033
	BULL PLUG			3	

CUSHION TYPE	LENGTH (FT)	SURFACE PRESSURE (PSIG)	TOTAL PRESSURE AT TEST TOOL (PSIG)

INTERVAL

Type MFE-OPEN HOLE

Size 7.875 in

Weight _____ lb/ft

PERFS

Size _____ in Density _____ spf

Gun _____ Total _____ shots

Interval(s) _____ ft

WELL TEST DATA PRINTOUT

FIELD REPORT # : 42954E

COMPANY : CHANDLER & ASSOCIATES
WELL : JOHNSON CREEK FEDERAL #6-33

INSTRUMENT # : J-1117
CAPACITY [PSI] : 4700.
DEPTH [FT] : 6033.0
PORT OPENING : OUTSIDE
TEMPERATURE [DEG F] : 116.0

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA
1	3:42:14	21-OC	HYDROSTATIC MUD	-5.76	2905
2	3:48: 0	21-OC	START FLOW	0.00	50
3	4: 3: 3	21-OC	END FLOW & START SHUT-IN	15.05	50
4	5: 4: 3	21-OC	END SHUT-IN	76.05	842
5	5: 6:19	21-OC	START FLOW	78.32	40
6	6:36:45	21-OC	END FLOW & START SHUT-IN	168.75	48
7	9:29: 0	21-OC	END SHUT-IN	341.00	1675
8	9:39:38	21-OC	HYDROSTATIC MUD	351.64	2884

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	15.05	15.05	50	50
2	78.32	168.75	90.43	40	48

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	15.05	76.05	61.00	50	842	50	15.05
2	168.75	341.00	172.25	48	1675	48	105.48

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
3:48: 0	21-OC	0.00	0.00	50
3:53: 0	21-OC	5.00	5.00	51
3:58: 0	21-OC	10.00	10.00	50
4: 3: 0	21-OC	15.00	15.00	50
4: 3: 3	21-OC	15.05	15.05	50

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 50
PRODUCING TIME [MIN] = 15.05

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
4: 3: 3	21-OC	15.05	0.00	50	0	
4: 4: 3	21-OC	16.05	1.00	71	21	1.205
4: 5: 3	21-OC	17.05	2.00	88	38	0.931
4: 6: 3	21-OC	18.05	3.00	105	55	0.779
4: 7: 3	21-OC	19.05	4.00	121	71	0.678
4: 8: 3	21-OC	20.05	5.00	137	87	0.603
4: 9: 3	21-OC	21.05	6.00	152	102	0.545
4:10: 3	21-OC	22.05	7.00	167	117	0.498
4:11: 3	21-OC	23.05	8.00	183	132	0.460
4:12: 3	21-OC	24.05	9.00	198	147	0.427
4:13: 3	21-OC	25.05	10.00	213	163	0.399
4:15: 3	21-OC	27.05	12.00	243	192	0.353
4:17: 3	21-OC	29.05	14.00	272	222	0.317
4:19: 3	21-OC	31.05	16.00	299	249	0.288
4:21: 3	21-OC	33.05	18.00	326	275	0.264
4:23: 3	21-OC	35.05	20.00	353	303	0.244
4:25: 3	21-OC	37.05	22.00	380	330	0.226
4:27: 3	21-OC	39.05	24.00	406	356	0.211
4:29: 3	21-OC	41.05	26.00	432	381	0.198
4:31: 3	21-OC	43.05	28.00	457	406	0.187
4:33: 3	21-OC	45.05	30.00	482	432	0.177
4:38: 3	21-OC	50.05	35.00	544	494	0.155
4:43: 3	21-OC	55.05	40.00	603	553	0.139
4:48: 3	21-OC	60.05	45.00	662	612	0.125
4:53: 3	21-OC	65.05	50.00	719	669	0.114
4:58: 3	21-OC	70.05	55.00	775	725	0.105
5: 3: 3	21-OC	75.05	60.00	831	781	0.097
5: 4: 3	21-OC	76.05	61.00	842	792	0.096

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
5: 6:19	21-0C	78.32	0.00	40
5:11:19	21-0C	83.32	5.00	47
5:16:19	21-0C	88.32	10.00	51
5:21:19	21-0C	93.32	15.00	51
5:26:19	21-0C	98.32	20.00	50
5:31:19	21-0C	103.32	25.00	51
5:36:19	21-0C	108.32	30.00	53
5:41:19	21-0C	113.32	35.00	52
5:46:19	21-0C	118.32	40.00	51
5:51:19	21-0C	123.32	45.00	51
5:56:19	21-0C	128.32	50.00	51
6: 1:19	21-0C	133.32	55.00	52
6: 6:19	21-0C	138.32	60.00	50
6:11:19	21-0C	143.32	65.00	50
6:16:19	21-0C	148.32	70.00	49
6:21:19	21-0C	153.32	75.00	49
6:26:19	21-0C	158.32	80.00	48
6:31:19	21-0C	163.32	85.00	48
6:36:19	21-0C	168.32	90.00	48
6:36:45	21-0C	168.75	90.43	48

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 48
PRODUCING TIME [MIN] = 105.48

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
6:36:45	21-0C	168.75	0.00	48	0	
6:37:45	21-0C	169.75	1.00	53	5	2.027
6:38:45	21-0C	170.75	2.00	62	14	1.730
6:39:45	21-0C	171.75	3.00	76	28	1.558
6:40:45	21-0C	172.75	4.00	91	42	1.437
6:41:45	21-0C	173.75	5.00	105	57	1.344
6:42:45	21-0C	174.75	6.00	119	71	1.269
6:43:45	21-0C	175.75	7.00	133	85	1.206
6:44:45	21-0C	176.75	8.00	147	99	1.152
6:45:45	21-0C	177.75	9.00	161	113	1.104
6:46:45	21-0C	178.75	10.00	175	127	1.063
6:48:45	21-0C	180.75	12.00	202	153	0.991
6:50:45	21-0C	182.75	14.00	228	179	0.931
6:52:45	21-0C	184.75	16.00	254	206	0.880
6:54:45	21-0C	186.75	18.00	280	232	0.836
6:56:45	21-0C	188.75	20.00	306	258	0.798
6:58:45	21-0C	190.75	22.00	333	284	0.763
7: 0:45	21-0C	192.75	24.00	359	310	0.732

FIELD REPORT # : 42954E PAGE -

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 48
PRODUCING TIME [MIN] = 105.48

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
7: 2:45	21-OC	194.75	26.00	385	336	0.704
7: 4:45	21-OC	196.75	28.00	411	362	0.678
7: 6:45	21-OC	198.75	30.00	437	388	0.655
7:11:45	21-OC	203.75	35.00	499	450	0.604
7:16:45	21-OC	208.75	40.00	560	511	0.561
7:21:45	21-OC	213.75	45.00	620	572	0.524
7:26:45	21-OC	218.75	50.00	678	630	0.493
7:31:45	21-OC	223.75	55.00	735	686	0.465
7:36:45	21-OC	228.75	60.00	790	742	0.441
7:41:45	21-OC	233.75	65.00	845	796	0.419
7:46:45	21-OC	238.75	70.00	899	851	0.399
7:51:45	21-OC	243.75	75.00	950	902	0.381
7:56:45	21-OC	248.75	80.00	1001	952	0.365
8: 1:45	21-OC	253.75	85.00	1052	1003	0.350
8: 6:45	21-OC	258.75	90.00	1100	1052	0.337
8:11:45	21-OC	263.75	95.00	1147	1099	0.324
8:16:45	21-OC	268.75	100.00	1193	1145	0.313
8:21:45	21-OC	273.75	105.00	1238	1190	0.302
8:26:45	21-OC	278.75	110.00	1281	1233	0.292
8:31:45	21-OC	283.75	115.00	1320	1272	0.283
8:36:45	21-OC	288.75	120.00	1357	1309	0.274
8:41:45	21-OC	293.75	125.00	1394	1346	0.266
8:46:45	21-OC	298.75	130.00	1431	1383	0.258
8:51:45	21-OC	303.75	135.00	1468	1419	0.251
8:56:45	21-OC	308.75	140.00	1499	1451	0.244
9: 1:45	21-OC	313.75	145.00	1529	1481	0.237
9: 6:45	21-OC	318.75	150.00	1557	1509	0.231
9:11:45	21-OC	323.75	155.00	1586	1538	0.225
9:16:45	21-OC	328.75	160.00	1614	1566	0.220
9:21:45	21-OC	333.75	165.00	1639	1591	0.215
9:26:45	21-OC	338.75	170.00	1664	1616	0.210
9:29: 0	21-OC	341.00	172.25	1675	1627	0.207

Form 9–331
Dec. 1973

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
1401 Denver Club Bldg, Denver, Colo. 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2047' FWL; 1988' FNL (SE NW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

5. LEASE
U-21256

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
---

7. UNIT AGREEMENT NAME
---

8. FARM OR LEASE NAME
Johnson Creek Fed.

9. WELL NO.
6-33

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 33-35S-22E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30804

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6775' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☒	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9–330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

For well history and proposed completion procedures, please see the attached information.

RECEIVED
NOV 04 1982
DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Marx TITLE Petroleum Engineer DATE 11-2-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

CHANLDER & ASSOCIATES, INC.

COMPLETION PROGNOSIS

JOHNSON CREEK #6-33
San Juan County, Utah

LOCATION:	1988' FNL, 2047' FWL (SE NW) Section 33-T35S-R22E
ELEVATION:	6786' KB, 6775' GL
TOTAL DEPTH:	6399' KB (Drillers)
PLUG BACK DEPTH:	6295' KB (Estimated)
CASING:	13-3/8", 48#, H-40 casing cemented at 502' KB with 675 sacks of Class "B" containing 2% $CaCl_2$ and ¼#/sack flocele. 5-1/2", 15.5#, K-55 casing cemented at 6339' KB with 300 sacks Class "B". Float held okay.
LOG TOPS:	Upper Ismay 5947' KB Hoven Weep Shale 6055' KB Lower Ismay 6121' KB Goodsik Shale 6164' KB Desert Creek 6194' KB Chimney Rock 6264' KB
DST RESULTS:	DST #1 6010-6027' KB Ismay IF 15", ISI 60", FF 90", FSI 170" Pipe Recovery: 40' very gas cut mud w/ rainbow of oil. Sample Chamber: 0.09 cfg, 30 psi, 760 cc gas cut mud. DST #2 6013-6043' KB - Ismay IF 4 hrs, SI 2 hrs Pipe Recovery: 210' gas cut water and mud. Sample Chamber: 0.05cfg, 100 psi, 1500 cc water (Rw=.53 @70°) 100 cc mud (Rmf = .75 @68@)

PROCEDURES:

1. Move in workover rig.
2. Pick up and run in hole with 4-3/4" bit, 5½" casing scraper, and 2-7/8" tubing. Tag bottom. PU and circulate hole clean with 2% KCl water. POH with tubing, scraper and bit.
3. Run Correlation-Gamma Ray Log and Cement Bond Log from PBTD to top of cement (estimated top of cement at 5300' KB).
4. Install BOP.
5. Perforate the lower Desert Creek from 6250-6260' KB with 2 spf using DML XXIII jets in a 4" casing gun.
6. RIH with 2 jts of tailpipe, packer, seating nipple and tubing. Land tubing with bottom of tailpipe at 6265±' KB.
7. Acidize perforations 6250-6260' KB w/ 1000 gals of 15% HCl mud clean-out acid. Spot acid, soak, and displace at 2 to 3 BPM.
8. Swab acid load back. Swab test for fluid rate and fluid cut.
9. (a) If zone is NOT oil/gas productive, set CIBP, on wireline, at 6200' KB and proceed to step number 19.

   (b) If zone is oil/gas productive, re-acidize with 5000 gallons of foamed 15% HCl. Acidize at 4 to 6 BPM. Obtain a sample of the oil/gas prior to acidizing.

10. Flow/swab acid load back. Swab test for fluid rate and cut.
11. Set retrievable bridge plug at 6200' KB.
12. Perforate 6142-46' KB with 2 spf as before.
13. RIH w/ retrieving head, tailpipe, packer, seating nipple, tubing. Land tailpipe at 6150±' KB.
14. Acidize with 1000 gals 15% mud clean-out acid, as before.
15. Swab acid load back. Swab test for fluid rate and cut.
16. If necesary, re-acidize with 3000 gallons of foamed 15% HCl. Acidize at 4-6 BPM.
17. Flow/swab acid load back. Swab test for fluid rate and cut.
18. Retrieve and re-set RBP at 6100' KB.
19. Perforate Upper Ismay 6020-24' KB with 2 SPF as before.
20. RIH w/ 2 jts of tailpipe, packer, seating nipple & tubing. Land bottom of tailpipe at 6030±' KB.
21. Acidize with 1000 gals of 15% mud clean-out acid as before.
22. Swab acid load back. Swab for fluid rate and cut.
23. Re-acidize with 5000 gallons of foamed 15% HCl. Acidize at 4-6 BPM.
24. Flow/swab acid load back. Swab for fluid rate and cut.
25. Retrieve RBP.
26. Put well on production.

WPM/jn
11-1-82

CHANDLER & ASSOCIATES

JOHNSON CREEK FEDERAL 6-33

SAN JUAN, COUNTY
UTAH

BY

L. A. (LARRY) PRENDERGAST
187 Reta Drive
Grand Junction, Colorado 81503
303-245-3921

RECEIVED
NOV 16 1982
DIVISION OF
OIL, GAS & MINING

GEOLOGICAL REPORT

ON

JOHNSON CREEK FEDERAL 6-33

FOR

CHANDLER & ASSOCIATES

TABLE OF CONTENTS

WELL DATA SUMMARY

Well Name:	Johnson Creek Federal 6-33
Operator:	Chandler & Associates
Location:	Sec. 33, T 35 S, R 22 E
Province:	San Juan County, Utah
Area:	Johnson Creek
Drilling Contractor:	Brinkerhoff - Signal #32
Elevation:	Gr. 6775
	Kb 6786
Depth Logged:	6329
Well Status:	Awaiting Completion
Casing Program:	502' 13 3/8 Surface
	5 1/2" 15.5 16/ft to T.D.
Mechanical Logs Run:	
	Dual Induction Focused Log
	BHC Acoustilog
	Densilog, Neutron w/Gamma
Cores:	None
D.S.T.:	#1 Johnston - Macco
	#2 Johnston - Macco
Mudlogging Company:	Tooke Engineering
	Barry Sylvester John Walker

Gr 6775
Kb 6786

FORMATION TOPS

FORMATION	PROGNOSIS	SAMPLE	ESTIMATED TOP	E-LOG	SUBSEA LOG
Dakota				Spud	
Morrison				588	6198
Sommerville					
Entrada				998	5788
Carmel				1140	5646
Navajo	1275			1223	5563
Kayenta				1782	5004
Windage	1990			1956	4830
Chinle				2280	4506
Shinanump				2852	3934
Moenkopi	3025			3020	3766
Cutler				3220	3566
Honaker Trail	5065		4499	4942	1844
Upper Ismay	6005		5951	5947	839
Hovenweep Sh.			6066	6055	731
Lower Ismay	6150		6127	6121	665
Gothic Shale			6173	6164	622
Desert Creek	6240		6203	6194	592
Chimney Rock Sh.			6288	6264	522
Akah			6314	6302	484
Salt			6334		
T. D.	6400		6339	6329	547

DEVIATION SURVEYS

Deviation surveys after surface casing

DEPTH	SURVEY	CHANGE
832	½	
1931	1½	1°
2397	2°	½°
2866	2°	
3425	2¼°	¼°
4082	2°	¼°
4656	2°	
5042	1 3/4°	¼°
5627	1½°	¼°
6010	2°	½°

BIT RECORD

6-33

OPERATOR: Chandler & Assoc. WELL NAME: Johnson Creek Fed LOCATION NO: _____

CONTRACTOR: Brunkerhoff Signal RIG#: 32 AREA: Johnson Creek STATE/COUNTY San Juan, Utah.

RIG MAKE & MODEL: Continental EMSCO G-35OT SURF CSG: 502 13 3/8 INT. CSG: _____ PROD CSG: _____

NO 1 PUMP, MAKE & MODEL: Gardner-Denver PZ-7 SPUD DATE: 23Sept.82 G.L.: 6775

NO 2 PUMP, MAKE & MODEL: _____ T.D. DATE: 23Oct.82 K.B.: 6786

BIT NO.	SIZE	MAKE / Type	JETS	BIT SER. NO.	DEPTH OUT	FEET	HOURS	ACCUM. HOURS	WT. M.	RPM	VERT. DEV.	PUMP PSI	MUD WT. ppg.	MUD VIS	BIT. COND. T	B	G	REMARKS
1	12/4	HTC / X3A	3x13	Retip	502	502	22 1/2											
2	17½	Reed / H.O	Open	Retip	502	502	11½											
3	7 7/8	STC / F-2	3x10	R.R.	1931	1429	17¼											
4	77/8	Reed, / H551	12/13 Blank	RR/76	3425	1494	51		38	70	2¼	1300			4	8	I	Single
5	77/8	STC / F-3	13/14 Blank	RR/76	4082	657	35 3/4		38	70	2	1300			4	6	I	Double
6	77/8	STC / F-3	12/14 Blank	RR/32	5042	960	56¼		38	70	1 3/4	1300					I	Stand
7	77/8	Reed / FP 53	13/13 Blank	7201-80	5507	435	37 3/4		40	70	1½	1300						Bit washed out.
8	77/8	STC / F-3	13/13 13	DA 2341	6339	832	73		40	70		1300						TD.

4

COMPANY Chandler & Associates

WELL NO. Johnson Creek Federal 6-33

LOCATION Sec. 33, T 35 S, R 22 E San Juan County, Utah

ZONE OF INTEREST NO. 1

INTERVAL: From 6009 To 6011

DRILL RATE: Abv 6 min/ft Thru 2.5 - 3.2 min/ft Below 5 min/ft

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C_1	C_2	C_3	C_4	C_5	OTHER
Before	2	2	1	TR			No Fluor or cut
During	110	28	14	6			NFOC
After	2	2	1	TR			

Type gas increase: Gradual ☐ Sharp ☒

Gas variation within zone: Steady ☐ Erratic ☐ Increasing ☒ Decreasing ☒

CARBIDE HOLE RATIO: GRAMS / READING X Min. in Peak = _____ Sensitivity: Poor ☐ Fair ☐ Good ☐

FLUO: Mineral ☐ Even ☐ Spotty ☐
None ☒ % in total sample 0
Poor ☐
Fair ☐ % in show lithology _____
Good ☐ COLOR: _____

CUT: None ☒ Streaming
Poor ☐ Slow ☐
Fair ☐ Mod ☐
Good ☐ Fast ☐
COLOR: _____

STAIN: None ☐ Poor ☐ Fair ☐ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☐ Lt. ☐ Dk. ☐

POROSITY: Poor ☒ Fair ☐ Good ☐ Kind Tr frac Ø (?)

LITHOLOGY LS - mgy micxl - micsuc slty ip p frac Ø NFOC

SAMPLE QUALITY _____

NOTIFIED _____ @ _____ HRS. DATE: _____

REMARKS _____

ZONE DESCRIBED BY _____

COMPANY Chandler & Associates

WELL NO. Johnson Creek Federal 6-33

LOCATION Sec 33, T 35 S, R 22 E San Juan County, Utah

ZONE OF INTEREST NO. 2

INTERVAL: From 6035 To 6042

DRILL RATE: Abv 5 m/ft Thru 1½ - 2 m/ft Below

total drill time 7 min/12 ft

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C_1	C_2	C_3	C_4	C_5	OTHER
Before	5	4	4	2	TR		NFOC
During	320	208	96	40	12		NSF&C
After							

Type gas increase: Gradual ☐ Sharp ☒

Gas variation within zone: Steady ☐ Erratic ☒ Increasing ☒ Decreasing ☒

CARBIDE HOLE RATIO: GRAMS / READING X Min. in Peak = _____ Sensitivity: Poor ☐ Fair ☐ Good ☐

FLUO: Mineral ☒ Even ☐ Spotty ☐ % in total sample L 1%
None ☐ Poor ☐ Fair ☐ Good ☐ % in show lithology L 1%
COLOR: Yel

CUT: None ☒ Poor ☐ Fair ☐ Good ☐ Streaming ☐ Slow ☐ Mod ☐ Fast ☐
COLOR: _____

STAIN: None ☐ Poor ☐ Fair ☒ Good ☐ Live ☐ Dead ☐ Residue ☐ Even ☐ Spotty ☐ Lt. ☐ Dk. ☐
Brown

POROSITY: Poor ☒ Fair ☐ Good ☐ Kind _____

LITHOLOGY LS - Tan - Brn vfxln sl Dol dns hd f-p intxln Ø tr frac Ø
Tr flour v ft mky cut SAMPLE QUALITY good

NOTIFIED Bob Lent @ _____ HRS. DATE: _____

REMARKS _____

ZONE DESCRIBED BY _____

DAILY REPORT

TEMP _____ SPUD 23 Sept 82 DAY 23 DATE 15 Oct 82
COMPANY Chandler & Associates
WELL Johnson Creek Federal 6-33
LOCATION _____

DEPTH YEST. 4409 TODAY 4783 FTG 374 FT/HR _____
OPERATION Drlg Ahead

BIT NO. 5 TYPE STC F3 RR IN 3425 OUT 4082 FT. 657 HRS. 35 3/4
BIT NO. 6 TYPE STC F3 RR IN 4082 OUT _____ FT. _____ HRS. _____
WOB 40 RPM 70 PP 1300 SPM 120 LAG 45 @4731 (3.50)
9775 9.0 36 14.0 1 9.9 900 36
MUD 4406 WT 8 9 VIS 35 WL 15.6 CK 1 PH 10.3 CL 1260 Fe/Ca 36
SURVEYS Ø 2° 4656

GEOLOGICAL

FORM TOPS _____

FORMATION P Cutler

LITHOLOGY Pred Shale/Most - Rd, orng, mas, occ blky rthy calc mod frm occ sh - gy, gn, mas, sbwxy, wxy sft
Mnr SS brn, rd, ark, f, vfgr, mod, p srtd, slty, mica, pyr, arg, occ v calc mod frm tt NFOC
mnr LS - crm buff, gy micxl occ svc ool ip sl dol hd tt NFOC
Occ SS - clr wh qtz occ lt gn incl m c gr srtd mod srtd sl fri Nfoc

MUD GAS 0 - Tr TG 0-tr BACKGROUND 0 - tr
ZONE OF INTEREST NO. _____ @ _____ TO _____
SHOWS-BREAKS None/occ drlg brks w/no gas: apr sand stringers

DEPTH	LITHOLOGY	HW	C1	C2	C3	C4	C5	FLOU	
		0-tr	o-tr	0	0	0	0	0	

REMARKS

629-8756
CALLED Jim Judd H 303-499-1664 @ 7:30 a.m. DATE 15 Oct, 82
GEOLOGY LAP LOGGING Tooke Eng / John Walker MILEAGE _____ EXP _____

DAILY REPORT

TEMP _____ SPUD 23 Sept DAY 24 DATE 16 Oct 82
COMPANY Chandler & Assoc.
WELL Johnson Creek Federal 6-33
LOCATION _____

DEPTH YEST. 4786 TODAY 5042 FTG 256 FT/HR 10.7
OPERATION TOH For Bit #7

BIT NO. 6 TYPE STC F3 RR IN 4082 OUT 5042 FT. 960 HRS. 64
BIT NO. 7 TYPE RECD FP-535 IN 4082 OUT _____ FT. _____ HRS. _____
WOB 40 RPM 70 PP 1300 SPM 120 LAG 45 @ 4751

MUD 5042 WT 8.9 VIS 33 WL 12.8 CK 1 PH 10.6 CL 860 Fe/Ca 32
SURVEYS None; last (4656) indicated 2° Dev.

GEOLOGICAL

FORM TOPS Honaker Trail 4949 ±

FORMATION P Cutler (grdg to Hermosa GP?)

LITHOLOGY 4800 - 4950: Pred Sh - rd brn mas sl blky rthy slty ip w/ scat mic calc mod frm, occ ss wh lt gy occ lt gn flecks f mgr p mod srtd pred sbang mod frm p Ø NFOC

4950 - 5030: pred LS crm lt gy occ brn mot pred crpxl occ sparry calcite assoc with fractures tr scat fos frags slty and sdy ip occ sl dol dense hd tt NFOC; occ SS gen AA bcm incr mica; SH decr occ CLYST gy gn wxy, sl calc occ slty v sft.

MUD GAS 0-tr TG 0-tr BACKGROUND 0-tr
ZONE OF INTEREST NO. N/A @ _____ TO _____
SHOWS-BREAKS N/A

DEPTH	LITHOLOGY	HW	C1	C2	C3	C4	C5	FLOU
		0-tr	0-tr	0	0	0		None

REMARKS Seems to be grading to marine depositional environment
DST #1 (45, 60, 90, 180)

CALLED N/A @ _____ DATE _____
GEOLOGY _____ LOGGING _____ MILEAGE _____ EXP _____

DAILY REPORT

TEMP _____ SPUD 23 Sept 82 DAY 25 DATE 17 Oct 82
COMPANY _____
WELL _____
LOCATION _____

DEPTH YEST. 5042 TODAY 5209 FTG 167 FT/HR 6.9
OPERATION Drilling Ahead

BIT NO. 7 TYPE REED FP 53 IN 5042 OUT _____ FT. _____ HRS. _____
BIT NO. _____ TYPE _____ IN _____ OUT _____ FT. _____ HRS. _____
WOB 40K RPM 70 PP 1300 SPM 120 LAG 45 @ 5159

MUD 5200 Ft WT 9.0 VIS 36 WL 10 CK 1 PH 11.3 CL 940 Fe/Ca 32
SURVEYS 1 3/4° at 5042

GEOLOGICAL

FORM TOPS Honaker Trail 4949

FORMATION Honaker Tr.

LITHOLOGY Pred LS wh crm buff occ brn mot cryxl freq sdy incr foss sparry ool sl ool ip occ v chky/ intbd w/ thinly bedded SS & SH; SS pred tan brn ark a m gr pred sbang mod srtd mica arg sl calc frm p Ø NFOC occ calcarenite SS white v cln, m f gr sbrnd w srtd ØCNFOC / SH Pred Rd Brn mas rthy mica mod frm, occ gy sh plty rthy carb frm grog to coal vit pyr.

MUD GAS _____ TG ___ BACKGROUND 0-2
ZONE OF INTEREST NO. _____ @ _____ TO _____
SHOWS-BREAKS No Breaks

DEPTH	LITHOLOGY	HW	C1	C2	C3	C4	C5	FLOU	
5092	Shale, Coal	10	5	4	2	Tr		None	
5197-5200		7/15	4/7	2/8	3/8	Tr		None	

REMARKS Minor show associated with shale and thin coal seam, no sample flor or cut/gas increase apr assoc with frac LS - Drlg rate erratic at 3-8 m/ft Strapped Pipe going back in hole.
Rig Service: Repair Pumps: 7 hours down time

CALLED 303 499-1664 @ _____ DATE _____
GEOLOGY _____ LOGGING _____ MILEAGE _____ EXP _____

DAILY REPORT

TEMP _____ SPUD 23 Sept. 82 DAY 26 DATE 18 Oct. 82
COMPANY Chandler & Associates
WELL Johnson Creek Federal 6033
LOCATION Sec. 33, T35 S R 22 E'
San Juan County, Utah
DEPTH YEST. 5209 TODAY 5500 FTG 291 FT/HR 12.1
OPERATION Drlg ahead

BIT NO. 7 TYPE Reed FP 53J IN 5042 OUT _____ FT. _____ HRS. _____
BIT NO. _____ TYPE _____ IN _____ OUT _____ FT. _____ HRS. _____
WOB 40K RPM 70 PP 1300-1200 SPM 120-118 LAG 47 min @ 5951
PP DECREASE NOT DUE TO HOLE IN PIPE: POS DUE TO ADDED MAT AT HOPPER
MUD 5497 WT 9.2 VIS 38 WL 10.8 CK 2 PH 11.1 CL 1380 Fe/Ca 42
SURVEYS LAST AT 5042 - 1 3/4°

GEOLOGICAL

FORM TOPS Honaker Trail - 4949

FORMATION Honaker Trail

LITHOLOGY INTERBEDDED LS & SH OCC THN COAL BED (5320) W SLAT SS STRINGERS; LS PRED LT M DK GY OCC W CRM TAN MICXL MICSUC OCC ARG V SL DOL IP OCC CHKY V SL DOL IP GEN HD DENSE W/NO VIS Ø NFOC; SH M DK GY PLTY SPLTY OCC CARB GEN SL CALC BCM DOL 5450 FRM HD BRIT; OCC CARBONATE SS - WH F GR SBRND W SRTD V CALC W/ABNT PELLETS SL TR MICA & KSPAR FRI FØ NFOC

MUD GAS _____ TG ___ BACKGROUND 1 2u TG
ZONE OF INTEREST NO. _____ @ _____ TO _____
SHOWS-BREAKS

DEPTH 5325 LITHOLOGY	HW	C1	C2	C3	C4	C5	FLOU	
CARB SH & COAL at 5325	102	80	29	4			None	
SH GAS AT 5297 & 5360	12	10	5	3			None	

REMARKS Ran 2 carbide lags to check pipe for hole some connection gas at 5224 and 5252: 10u TG, 8u C_1, 5u, C_2 3u C_5

CALLED Bob Lent 303-629-6756 @ _____ DATE _____
GEOLOGY _____ LOGGING _____ MILEAGE _____ EXP _____

DAILY REPORT

TEMP _____ SPUD 23 Sep 82 DAY 27 DATE 19 Oct 82
COMPANY Chandler & Associates
WELL Johnson Creek Federal 6-33
LOCATION Sec 33 T 35 S, R 22 E San Juan County, Utah

DEPTH YEST. 5500 TODAY 5708 FTG 208 FT/HR _____
OPERATION Drlg Ahead

BIT NO. 7 TYPE Reed FP53J IN 5042 OUT 5506 FT. 464 HRS. 40
BIT NO. 8 TYPE STC F3 IN 5506 OUT _____ FT. _____ HRS. _____
WOB 40K RPM 60-70 PP 1200-1300 SPM 118-120 LAG 46 @ 5470

MUD 5703 WT 8.9 VIS 36 WL 8 CK 1 PH 11.0 CL 1450 Fe/Ca 32
SURVEYS 1 3/4° at 5042

GEOLOGICAL

FORM TOPS Honaker Trail - 4949

FORMATION Honaker Trail

LITHOLOGY Intb Ls & SH occ Dol and Cht, LS wh, tan, gy, pred suc bcm v sdy ip gen sl doloic w/ occ inted bol hd frm & flky NFOC, SH gen mgy plty sl mica calc occ carb frm hd brit

MUD GAS _____ TG ___ BACKGROUND 3 u TG
ZONE OF INTEREST NO. _____ @ _____ TO _____
SHOWS-BREAKS

DEPTH	LITHOLOGY	HW	C1	C2	C3	C4	C5	FLOU
5680	LS SH	16	5	3	tr			None
5691		15	5	3	tr			None

REMARKS. Plled bit #7 because of lost PP. Found 1" hole in center of bit. No trip gas.

CALLED Bob Lent 629-6756 @ _____ DATE _____
GEOLOGY _____ LOGGING _____ MILEAGE _____ EXP _____

DAILY REPORT

TEMP 0600 SPUD 23 Sept 82 DAY 28 DATE 20 Oct 82
COMPANY Chandler & Asociates
WELL Johnson Creek Federal 6-33
LOCATION Section 33, T. 35 S, R 22 E
San Juan County, Utah
DEPTH YEST. 5708 TODAY 5975 FTG 167 FT/HR
OPERATION Drlg Ahead

BIT NO. 8 TYPE STC F-3 IN 5506 OUT FT. HRS.
BIT NO. TYPE IN OUT FT. HRS.
WOB 40 RPM 70 PP 1300 SPM 120 LAG 48 @ 5950

MUD 5976 WT 37 VIS 7.2 WL 1 CK 11.1 PH 1620 CL Fe/Ca 120
SURVEYS 1 3/4° at 5042

GEOLOGICAL

FORM TOPS Honaker Trail at 4949

FORMATION Honaker Trail Mgr. Hermosa Gp

LITHOLOGY LS (80%) SH (15%) tr cht & SS; LS pred m gy micxl, micsuc, sl dolomitic occ sdy, shy - chalkyw/seat tan cht gen dns md sl yel mnrl flor n cut
SH pred m gray rthy sl plty v mica sdy v slty grdg ip to sltst sl calc mod frm
SS (tr)
(5970-5976) Anhydrite

MUD GAS TG BACKGROUND 4 - 5 u TG
ZONE OF INTEREST NO. @ TO
SHOWS-BREAKS Stoy incr after 5956 to 36, 12, 16 10

DEPTH	LITHOLOGY	HW	C1	C2	C3	C4	C5	FLOU	
5940 (5u are conn Gas)		15	7	8	3	tr		None	
5948		18	7	8	3	1			

REMARKS. Gradual gas increase from 5935 to 5955, peak was at 5948 (61 spike), tapering to 12u TG bkgrnd at 5955. Circulate 45 min at 5950 to repair rotary table drive chain.

CALLED Bob Lent 629-6756 @ DATE
GEOLOGY LOGGING MILEAGE EXP

DAILY REPORT

TEMP _____ SPUD 23 Sept 82 DAY 29 DATE 21 Oct 82
COMPANY Chandler and Assoc
WELL Johnson Creek Federal 6-33
LOCATION Sec 33, T 35 S, R 22 E San Juan County, Utah

DEPTH YEST. 5975 TODAY 6042 FTG 67 FT/HR _____
OPERATION DST #1

BIT NO. _____ TYPE _____ IN _____ OUT _____ FT. _____ HRS. _____
BIT NO. _____ TYPE _____ IN _____ OUT _____ FT. _____ HRS. _____
WOB _____ RPM _____ PP _____ SPM _____ LAG _____ @ _____

MUD _____ WT _____ VIS _____ WL _____ CK _____ PH _____ CL _____ Fe/Ca _____
SURVEYS _____

GEOLOGICAL

FORM TOPS Upper Ismay 5951

FORMATION Upper Ismay

LITHOLOGY Ls lt tan, crm, lt brn, cryptxln, microxln, s/vfxln s/w fair interxln P & P tr fract P & P

MUD GAS _____ TG ___ BACKGROUND 5
ZONE OF INTEREST NO. 1 @ ___ TO _____
SHOWS-BREAKS 6035 - 6042

DEPTH	LITHOLOGY	LS	HW	C1	C2	C3	C4	C5	FLOU	
			320	208	96	40	12		NFOC	

REMARKS Show 2

CALLED Chandler & Assoc 629-6757 @ _____ DATE 21 Oct 82
GEOLOGY LAP LOGGING TOOKE MILEAGE _____ EXP _____

DAILY REPORT

TEMP _____ SPUD 23 Septe 82 DAY 30 DATE 22 Oct 82
COMPANY Chandler & Assoc
WELL Johnson Creek Federal 6-33
LOCATION Sec 33, T 35 S, R 22 E San Juan County, Utah

DEPTH YEST. 6042 TODAY 6051 FTG 9 FT/HR _____
OPERATION Drlg ahead

BIT NO. 8 TYPE RR F-3 IN 6042 OUT _____ FT. _____ HRS. _____
BIT NO. _____ TYPE _____ IN _____ OUT _____ FT. _____ HRS. _____
WOB 40 RPM 70 PP 130 SPM 120 LAG _____ @ _____

MUD 6042 WT 9.1 VIS 39 WL 6.6 CK 2 PH 11.8 CL 1620 Fe/Ca 42
SURVEYS _____

GEOLOGICAL

FORM TOPS _____

FORMATION Upper Ismay

LITHOLOGY LS lt tan aa

MUD GAS 400 units trip gas TG ___ BACKGROUND 1-2
ZONE OF INTEREST NO. _____ @ _____ TO _____
SHOWS-BREAKS 6042 - 51 1 Unit gas incr.

DEPTH	LITHOLOGY	HW	C1	C2	C3	C4	C5	FLOU	

REMARKS. Total drill break 6035-51

CALLED _____ @ _____ DATE _____
GEOLOGY _____ LOGGING _____ MILEAGE _____ EXP _____

DAILY REPORT

TEMP _____ SPUD 23 Sept 82 DAY 31 DATE 23 Oct 82
COMPANY Chandler & Assoc
WELL Johnson Creek Federal 6-33
LOCATION Sec 33, T 35 S, R 22 E
San Juan County, Utah
DEPTH YEST. 6052 TODAY 6312 FTG _____ FT/HR _____
OPERATION Drlg

BIT NO. 8 TYPE STC F-3 IN 5506 OUT _____ FT. _____ HRS. _____
BIT NO. _____ TYPE _____ IN _____ OUT _____ FT. _____ HRS. _____
WOB 40K RPM 70 PP 1300 SPM 120 LAG 49 min @ 6300

MUD 6311 WT 9.0 VIS 37 WL 13.4 CK 2 PH 11.3 CL 1680 Fe/Ca 86
SURVEYS _____

GEOLOGICAL

FORM TOPS 6203 ¶ Desert Creek
6288¶ Chimney Rock Sh
FORMATION Chimney Rock

LITHOLOGY LS - crm, orn, mot crpxl, occ micsuc, arg, doloic, pred, frm, occ dns & hd, gen PØ NFOC intgd w/anhy & Sh - m dr gy bcm blk v f s plty carb sl calc brit

MUD GAS _____ TG ___ BACKGROUND 80 u BG
ZONE OF INTEREST NO. _____ @ _____ TO _____
SHOWS-BREAKS 6289 6300 (See Remarks)
DEPTH 6295 LITHOLOGY SH

HW	C1	C2	C3	C4	C5	FLOU
320	190	170	70	14		None

REMARKS Gas levels fluctuated through the night with highter levels corresponding to increasingly carbonaceous shales. A possible porosity zone, which drilled 2-3 min/ft (6288-6309) was circulated up and found to be a fissile, brittle carbonaceous shale, chimney rock. No Cut was noted in any samples

CALLED _____ @ _____ DATE _____
GEOLOGY _____ LOGGING _____ MILEAGE _____ EXP _____

Release mud loggers as of midnight 24 Oct 82

DAILY REPORT

TEMP _____ SPUD 23 Sept 82 DAY 32 DATE 24 Oct 82
COMPANY Chandler & Assoc.
WELL Johnson Creek Fed 6-33
LOCATION _____

DEPTH YEST. 6312 TODAY 6339 FTG 27 FT/HR _____
OPERATION Finish E-logs Drlr 6339
Dresser Atlas SLM 6333
Loggor 6329

BIT NO. _____ TYPE _____ IN _____ OUT _____ FT. _____ HRS. _____
BIT NO. _____ TYPE _____ IN _____ OUT _____ FT. _____ HRS. _____
WOB _____ RPM _____ PP _____ SPM _____ LAG _____ @ _____

MUD _____ WT _____ VIS _____ WL _____ CK _____ PH _____ CL _____ Fe/Ca _____
SURVEYS _____

GEOLOGICAL

FORM TOPS _____
FORMATION Salt
LITHOLOGY _____

MUD GAS _____ TG _____ BACKGROUND _____
ZONE OF INTEREST NO. _____ @ _____ TO _____
SHOWS-BREAKS _____

DEPTH	LITHOLOGY	HW	C1	C2	C3	C4	C5	FLOU	

REMARKS 1. Complete DIL w/gamma, Densilog-neutron w/gamma. Acoustilog, ran Prolog w/Rw = .02
2. Drive to G. J. Airfreight logs to Denver - Attn: Bob Lent
3. Contact Bob Lent - asked to return to Blanding Utah for DST #2
4. Return to Blanding, Utah.

CALLED _____ @ _____ DATE _____
GEOLOGY _____ LOGGING _____ MILEAGE _____ EXP _____

DAILY REPORT

TEMP _____ SPUD 23 Sept 82 DAY 33 DATE 25 Oct 82
COMPANY Chandler & Assoc.
WELL Johnson Creek Fed 6-33
LOCATION San Juan County, Utah

DEPTH YEST. _____ TODAY 6329 FTG _____ FT/HR _____
OPERATION DST #2 6013 - 6013
See DST Report #2

BIT NO. _____ TYPE _____ IN _____ OUT _____ FT. _____ HRS. _____
BIT NO. _____ TYPE _____ IN _____ OUT _____ FT. _____ HRS. _____
WOB _____ RPM _____ PP _____ SPM _____ LAG _____ @ _____

MUD _____ WT _____ VIS _____ WL _____ CK _____ PH _____ CL _____ Fe/Ca _____
SURVEYS _____

GEOLOGICAL

FORM TOPS _____

FORMATION Salt

~~[illegible]~~ NOTE: Report results of DST #2 to Chandler & Associates Denver office.

DECISION: Run production casing 5½" 15.5

Return to Grand Junction

MUD GAS _____ TG ___ BACKGROUND _____
ZONE OF INTEREST NO. _____ @ _____ TO _____
SHOWS-BREAKS _____

DEPTH _____ LITHOLOGY	HW	C1	C2	C3	C4	C5	FLOU	

REMARKS

CALLED _____ @ _____ DATE _____
GEOLOGY _____ LOGGING _____ MILEAGE _____ EXP _____

DRILL STEM TEST REPORT

Test No. & Interval: DST #1 6025 - 6042 Date: 21 Oct 82

Well Name & Location: Chandler & Assoc. Johnson Creek Fed. 33-6

Formation: Upper Ismay Hole Size: 7 7/8

Test Type: Conventional Dual Packer Testing Co.: Johnson-Macco

Mud Properties: Mud Wt: 9.0 Vis: 37 PH. 12.3 W.L. 6.4

Rm 1.6 @ 56 Rmf 2.0 @ 63

Water Cushion (if any) None

Times & Pressures:

Time & Date Tool opened: 21 Oct 82 — 3:45 packer set, 3:48 a.m. tool opened

Preflow:	15 mins.	28 psi	F.S.I.	170 mins.	37-1646 psi
I.S.I.:	60 mins.	28-818 psi	I.H.		2889 psi
I.F.:	mins.	psi	F.H.		2870 psi
F.F.	90 mins.	28-37 psi	Bottom Hole Temperature		116 °F

Recovery & Description:

Blow on Preflow: On Back

Gas/Fluid to Surface: None

Type of flow during valve open (flow period):

Fluid Recovered: 40' VGCM w/Rainbow Oil = .292 bbl

Samples: Quantity: 2 spl + MFE spl

Shipped to: Shipped by:

Gas - to small to sple.
MFE - 30lb. = .09 ft^3 Gas — Rm 1.15 @ 64°
760cc Mud GC — Rmf 0.65 @ 66°

DRILL STEM TEST REPORT Chandler & Associates PAGE 2.

TEST NO. 1 WELL NAME Johnson Creek Fed. 33-6

Botton hole Choke size: 15/16"

FLOW MEASUREMENTS & CLOSED CHAMBER DATA (if any):

Times (Mins.)	Pressure Measurements PSI	Choke Size	Flow Rate mcf/day mmcf/day	Description
1 min	b.o.b.	1/8"	8 min	15 oz 73 3½
3 min	5 Oz.		13 min	14 oz. 78 3
5 min	6½ oz.		18	13 oz 83 2 3/4
7 min	7½ oz.		23	11.5 oz 88 2½
9 min	8½ oz		28	10.5 oz 90 2½
11 min	9 oz		33	9 oz
13 min	10 oz		38	7 oz
15	10½ oz		43	6½ oz
bleed off 1/8" choke in 30 min			48	6 oz
open w/ inst. 15 oz			53	5 oz
1 min	15½		58	4½
3 min	15½		63	4
			68	3 3/4

Remarks: (reason for test failure, abnormalities on charts, water salinity ppm etc.)

Open tool w/surf bubbles

pull loose @ 9:37

DRILL STEM TEST REPORT

Test No. & Interval: DST # 2 6013 - 6043 Date: 25 Oct 82

Well Name & Location: Chandler & Assoc Johnson Creek Fed 6-33

Formation: Upper Ismay Hole Size: 7 7/8

Test Type: Straddle Testing Co.: Johnson

Mud Properties: Mud Wt: 9.0 Vis: 30 PH. 2650 W.L. 9.6

Water Cushion (if any) None

Times & Pressures:

Time & Date Tool opened: 1:14 a.m. 25 Oct 82

Preflow: _____ mins. _____ psi I.S.I. 120 mins. 1637 psi

I.S.I.: _____ mins. _____ psi I.H. 2870 _____ psi

I.F.: _____ mins. _____ psi F.H. 2870 _____ psi

F.F. 240 mins. 28-122 psi Bottom Hole Temperature 114°F

Recovery & Description:

Blow on Preflow: See sheet Botton hole choke 15/16"

Gas/Fluid to Surface: None

Type of flow during valve open (flow period): _____

Fluid Recovered: 210=1.533)661 Gas cut & Water cut mud

Samples: Quantity: _____

Shipped to: _____ Shipped by: _____

MFE: 100 psi = .05 ft^3 gas
1500 cc H_2O Rw = .53 @ 70° F
100 CC Mud
Rm (P.T) 1.03 @ 68
Rmf (p.t) .75 @ 68

240 Min open
120 min SI

PAGASCO SERVICES, INC.

DRILL STEM TEST REPORT
TEST NO. 2 WELL NAME Johnson Creek Fed 33-6

FLOW MEASUREMENTS & CLOSED CHAMBER DATA (if any): ** See attached sheet

Times (Mins.)	Pressure Measurements PSI	Choke Size	Flow Rate mcf/day mmcf/day	Description

Remarks: (reason for test failure, abnormalities on charts, water salinity ppm etc.)

Communication around bottom packer during shut in

Mechanically unsuccessful

DST #2

Set Packer		01:11	A.M.	
Open tool		01:14	Surface blow	
		01:15	5 oz	
		01:16	6 oz	
7 min		01:21	7 oz	
		01:26	7 oz	
		01:31	5 oz	
		01:36	4.5 oz	
		01:41	3 oz	
		01:46	2 oz	
		01:51	1 oz	
		01:56	.5 oz	
47 min	A7	02:01	0 oz	
	52	02:06		7" water blow
	57	02:11		8"
		02:16		6.5"
		02:21		4.5:
		02:26		3"
		02:31		3"
		02:36		2.5"
		02:41		2.5"
		02:46		2.25"
		02:51		2"
		02:56		2"
		03:01		2"
		03:06		2"
		03:11		2"
		03:16		1.5"
		03:21		1.5"
		03:26		1.5"
		03:31		1.5"
		03:36		1.5"
		03:41		1.5"
		03:46		1.5"
		03:51		1.25"
		04:01		1.25"
		04:04		1.25"
		04:11		1.25"
		04:16		1.25"
		04:21		1.25"
		04:26		1.25"
195 min				
3 hr 15 min		04:31		1"
		04:36		1"
		04:41		1"
		04:46		1"
		04:51		1"
		04:56		1"
		05:01		1"
		05:06		1"
		05:11		1"
4 hour		05:14		1"

05:16 shut in dead in 1 min.
7:16 pulled loose

SAMPLE DESCRIPTION

Johnson Creek Federal 6-33

4500-4530	30%	Shale - red-brown to red-orange, micaceous, silty with some grading to siltstone, soft - firm, calcareous, trace anhydrite included, trace green waxy.
	30%	Sandstone - cream, very light brown - tan, very fine - fine grain medium sorted, subangular - subrounded, micaceous in part some slightly arkosic, friable, calcareous.
	40%	Limestone - cream - light gray, microcrystalline, hard, dense, sparry with trace fossiliferous fragments some cream, chalky.
4530-4560	80%	Shale - as above. Some red-green mottled.
	10%	Shale - as above.
	10%	Limestone - as above.
4560-4590	90%	Shale - as above. Some becoming very silty.
	05%	Shale - as above.
	05%	Limestone - as above.
4590-4620	60%	Shale - as above. Predominantly red orange and some red-brown.
	40%	Shale - white - light gray, medium to coarse grained, poorly sorted, subangular to rounded, friable, calcareous, some clay matrix, arkosic, micaceous.

4620-4650	80%	Shale - as above.
	20%	Sandstone - as above.
4650-4680	90%	Shale - predominantly red-orange, blocky, silty with some grading to siltstone, firm, calcareous; abundant gray-green waxy firm slightly calcareous.
	10%	Shale - as above. Trace Limestone as above.
4680-4710	95%	Shale - predominantly red-brown, very silty, micaceous, firm, blocky, caclareous, some red-orange as above.
	05%	Sandstone - light gray-brown, very fine to fine grain, well sorted, micaceous, firm, calcareous.
	Trace	Limestone - cream, tan, hard dense.
4710-4740	90%	Shale - as above. With trace anhydrite included.
	10%	Shale - as above.
4740-4770	90%	Shale - as above. With increasing red-orange, silty.
	10%	Shale - as above. With some white very coarse grained, subrounded, friable, calcareous. Trace limestone as above.
4770-4800	80%	Shale - as above. Some gray-brown, very micaceous.
	20%	Sandstone - light gray-cream, fine grained, very silty, very micaceous in part, arkosic, friable, calcareous. Trace limestone as above.
4800-4830	90%	Shale - predominantly red-orange, silty, with gray-green waxy, trace lavender, calcareous.
	10%	Shale - as above, with some gray-green, very fine friable, trace limestone, cream, light gray, hard dense.
4830-4850	90%	Shale - as above.
	10%	Shale - as above, trace limestone as above.
4860-4890	90%	Shale - as above.
	10%	Shale - as above, trace limestone.
4890-4920	70%	Shale - brick red to red-orange, blocky, firm, calcareous some silty, some grading to siltstone.

	10%	Sandstone - clear to light gray, medium to coarse grain, poorly sorted, subrounded, friable, calcarous; some fine grained subangular to sub-rounded, medium sorted, friable, calcareous.
	20%	Limestone - light to medium gray, microcrystalline, hard, dense, silty in part, dolomitic in part, some very light tan. Trace brown chert.
4920-4950	90%	Shale - as above, with some very micaceous, some gray-green waxy, micaceous in part, calcareous.
	10%	Limestone - cream - light gray, microcrystalline, hard, dense. Trace chert.
	Trace	Sandstone - as above.
4950-4980	20%	Shale - as above.
	60%	Sandstone - cream to light tan, very fine grained, some fine grained. Medium sorted, subangular to rare subrounded medium cement - friable, calcareous, with minor micaceous, K spar included.
	20%	Limestone - cream, chalky, tan - light gray, cryptocrystalline to microcrystalline, hard, dense, silty in part, some dolomitic in part.
4980-5000	20%	Shale - as above with some gray micaceous, firm, silty, calcareous.
	70%	Sandstone - cream - light tan predominantly medium grained with some gine grained rare coarse grain, poorly sorted, arkosic, some very micaceous. poor to medium cement, calcareous with clay matrix.
	10%	Limestone - as above, predominantly cream, some with gray oolites (oosparite) silty, dolomitic in part.
5000-5010	30%	Shale - as above with increasing gray micaceous.
	20%	Sandstone - as above.
	50%	Limestone - light tan to light gray, microcrystalline, hard, dense, some cream, chalky, oolitic, silty in part.
5010-5020	10%	Shale - as above.
	90%	Limestone - predominantly cream to light tan, cryptocrystalline to microcrystalline, hard, dense, NSOFC.
	Trace	Sandstone - as above.

	30%	Shale - as above.
	70%	Limestone - becoming predominantly light tan to tan, microsrystalline, hard, dense.
5030-5040	40%	Shale - as above with some gray-green waxy, some medium gray, micaceous, very silty, calcareous. some brick red, very silty grading to siltstone.
	50%	Limestone - light gray, light gray-brown, tan, cream, microcrystalline, silty, dolomitic, hard, dense,
	10%	Sandstone - as above.
5040-5050	10%	Shale - as above.
	90%	Limestone - cream, light gray, light gray brown microcrystalline, abundant fossil fragments. (biosparite) hard, dense, NSOFC.
5050-5060	90%	Limestone - as above.
	10%	Shale - as above. (cavings?)
5060-5070	40%	Shale - as above.
	50%	Limestone - as above.
5070-5080	30%	Shale - as above.
	70%	Sandstone - white, fine grained, subangular to subrounded, medium sorted, friable, calcareous, arkosic in part.
5080-5090	90%	Limestone - as above.
	05%	Sandstone - as above.
	05%	Shale - as above.
5090-5100	80%	Limestone - as above, becoming predominantly light gray to brown.
	10%	Shale - as above, some becoming brown, silty, micaceous, some gray-brown, silty, micaceous.
	10%	Sandstone - as above.
	Trace	Coal
5100-5110	95%	Limestone - as above, predominantly light gray-brown to tan, microcrystalline with abundant fossil fragments.

	05%	Shale - as above (Cavings?)
5110-5120	95%	Limestone - as above.
	05%	Shale - as above.
5120-5130	95%	Limestone - as above, predominantly tan micro-crystalline.
	05%	Shale - as above (cavings?)
5130-5140	95%	Limestone - tan to gray-brown, microcrystalline, hard, dense, trace fossiliferous fragments.
	05%	Shale - red-brown, silty, caclareous (cavings?)
5140-5150	95%	Limestone - as above.
	05%	Shale - as above.
515-5160	100%	Limestone - predominantly brown, gray-brown, microcrystalline, hard dense, with common brown chert
	trace	Shale - as above.
516-5170	100%	Limestone - as above.
		Chert as above.
5170-5180	100%	Limestone - as above.
		Chert - as above.
5180-5190	100%	Limestone - as above.
5190-5200	100%	Limestone - predominantly cream-light tan, microcrystalline, hard, dense, trace fracture, common brown, gray-brown microcrystalline, hard, dense. NSOFC.
	Trace	Pyrite included.
	Trace	Fossil fragment.
5200-5210	100%	Limestone - as above.
	Trace	Shale - gray-green, subwaxy, very siliceous, calcareous.
5210-5220	100%	Limestone - predominantly gray-brown, microcrystalline, very fine crystalline, hard, dense, some very silty, dolomitic in part.
5220-5230	100%	Limestone - as above.

5230-5240	100%	Limestone - medium gray to medium gray-brown, microcrystalline, hard, dense, NSOFC.
	Note	Increase in cavings due to increase in Mud Fiscosity.
5040-5050	100%	Limestone - as above, becoming gray-brown.
5050-5060	100%	Limestone - as above.
	Trace	Shale - gray-green, micaceous, firm, calcareous.
5060-5070	100%	Limestone - as above. Abundant cavings, Very Poor Samples.
5070-5080	80%	Limestone - as above.
	20%	Shale- gray-green, micaceous, firm, calcareous. Very poor samples, abundant cavings.
5080-5090	50%	Limestone - as above.
	50%	Shale - gray-green as above.
5090-5300	70%	Limestone - as above, abundant white, chalky.
	30%	Shale - as above.
5300-5310	90%	Limestone - predominantly white, chalky, with some light tan, microcrystalline, hard, dense.
	10%	Shale - as above.
5310-5320	100%	Limestone - as above.
	Trace	Shale - as above.
5320-5330	60%	Limestone - as above, becoming predominantly light tan to light gray, microcrystalline, hard, dense.
	40%	Shale - gray, gray-green, subwaxy, slightly calcareous, some gray, splintery micaceous.
	Trace	Coal
5330-5340	40%	Limestone - tan, cream, light gray, microcrystalline, hard, dense, some cream, chalky, trace fossil fragments.
	60%	Shale - light gray, firm, light gray-brown, silty, slightly calcareous, some maroon, silty, slightly calcareous, trace coal.
5340-5350	90%	Limestone - as above, becoming predominantly light gray-brown, light brown, silty.

	10%	Shale - as above.
5350-5360	90%	Limestone - as above, some tan, cryptocrystalline, hard, dense, some very sandy.
	10%	Shale - as above.
5360-6370	60%	Limestone - as above.
	40%	Shale - gray, maroon, brown, silty, micaceous, calcareous.
5370-5380	40%	Limestone - as above, some becoming dolomitic.
	50%	Shale - gray, silty in part, micaceous, fissile, slightly calcareous, some gray-green, waxy
5380-5390	90%	Limestone - cream to light tan to light gray, microcrystalline to very fine crystalline, abundant fossil fragments, trace oolites.
	10%	Shale - as above.
5390-5400	20%	Limestone - as above.
	80%	Shale - as above.
5400-5410	20%	Limestone - cream, microcrystalline, dense as above.
	80%	Shale - gray-green, waxy, slightly calcareous, some gray micaceous, silty, trace coal.
5410-5420	10%	Limestone - as above.
	90%	Shale - as above, some pastel violet
5420-5430	10%	Limestone - as above.
	90%	Shale - as above.
5430-5450	40%	Limestone - cream to light tan, microcrystalline, dense.
	60%	Shale - as above.
5440-5450	90%	Limestone - tan, cryptocrystalline to microcrystalline, with some very fine crystalline, hard, dense, dolomitic in part.
	10%	Shale - as above.
5450-5460	90%	Limestone - becoming gray brown, microcrystalline, dolomitic in part, hard dense.

5460-5470	100%	Limestone - gray, grey-brown, microcrystalline to very fine crystalline, silty in part, dolomitic in part, hard dense, trace shale.
5470-5480	90%	Limestone - as above.
	10%	Shale - as above.
5480-5490	100%	Limestone - becoming predominantly light tan to light brown, microcrystalline, hard, dense.
	Trace	Shale - as above.
	Trace	White, clear chert.
5490-5500	100%	Limestone - cream to light tan to light gray, microcrystalline, hard, dense, some arenaceous. trace fossil fragments.
5500=5510	20%	Limestone - as above.
	80%	Shale - medium to dark gray, sub-waxy, silty in part, fissile, firm, slightly calcareous, some sub-micaceous.
5510-5520	20%	Limestone - becoming very sandy.
	60%	Shale - as above.
	20%	Sandstone - white, light tan, very fine to fine grain, medium sorted, subangular to subrounded, poor cement to friable, calcareous, some with clay matrix.
5520-5530	80%	Limestone - cream to light gray, microcrystalline, very sandy, silty.
	20%	Shale - as above.
	Trace	Sandstone - as above.
5530-5540	90%	Limestone - as above, some light gray-brown.
	10%	Shale - as above.
5540=5550	90%	Limestone - as above.
	10%	Shale - as above.
5550-5560	80%	Limestone - as above.
	20%	Shale - as above.
5560-5570	90%	Limestone - predominantly cream to light tan, cryptocrystalline to microcrystalline, hard

		dense, abundant light gray, very sandy, calcareous, dolomitic.
	10%	Shale - gray, medium gray, firm, micaceous, slightly calcareous.
5570-5580	90%	Limestone - as above.
	10%	Shale - as above.
5580-5590	40%	Limestone - very sandy as above, some cream, very sandy.
	60%	Shale - as above.
5590-5600	10%	Limestone - as above.
	90%	Shale - as above.
5600-5610	30%	Limestone - as above.
	70%	Shale - as above.
5610-5620	20%	Limestone - cream, light gray, light tan, cryptocrystalline to microcrystalline, some very sandy, some dolomitic.
	80%	Shale - medium to dark gray, fissile, firm, slightly calcareous, some very micaceous, some sandy, trace black carbonaceous shale.
5620-5630	100%	Limestone - cream to light tan to light gray, cryptocrystalline to microcrystalline, hard, dense.
5630-5640	100%	Limestone - as above.
5640-5650	100%	Limestone - predominantly medium gray, microcrystalline, silty, sandy, dolomitic in part, with abundant cream to light tan as above.
5650-5660	100%	Limestone - medium gray-brown, microcrystalline to very fine crystalline, silty, some very sandy, dolomitic in part.
5660-5670	100%	Limestone - light brown, microcrystalline to very fine crystalline, silty, some very sandy, dolomitic in part.
	Trace	Shale - medium gray, silty, micaceous.
5670-5680	90%	Limestone - as above.
	10%	Shale - as above.

5680-5690	90%	Limestone - as above, trace chert.
	10%	Shale - as above.
5690-5700	100%	Limestone - as above, becoming tan, cryptocrystalline, trace chert, trace pyrite.
5700-5710	100%	Limestone - light tan to cream, microcrystalline to very fine crystalline, some soft chalky, dolomitic in part, predominantly hard, dense, trace chert.
	Trace	Shale - light gray, sub-waxy, firm, fissile, slightly calcareous.
5710-5720	100%	Limestone - as above with some medium gray, silty, dolomitic.
	Trace	Shale - as above some becoming medium gray, micaceous, dolomitic.
5720=5730	100%	Limestone - predominantly medium gray, very fine crystalline, very silty, very dolomitic, hard, dense, some cream, chalky.
	Trace:	Shale - as above.
5730-5740	90%	Limestone - as above with increasing tan micro-crystalline.
	10%	Shale - predominantly medium gray, subwaxy, silty, firm, blocky, slightly calcareous, trace black carbonaceous shale.
5740-5750	60%	Limestone - as above.
	40%	Shale - as above - some becoming brown, silty, dolomitic, micaceous.
5740-5750	60%	Limestone - as above.
	40%	Shale - as above, some becoming brown, silty, dolomitic, micaceous.
5750-5760	80%	Limestone - as above, trace chert.
	20%	Shale - as above.
5760-5770	80%	Limestone - as above, some becoming medium gray, microcrystalline, hard, dense, dolomitic.
	20%	Shale - as above.
5770-5780	90%	Limestone - medium gray with some dark gray, micro-crystalline, very silty, very dolomitic.

	10%	Shale - gray-green, gray, brown, silty, firm, blocky, slightly calcareous, micaceous in part.
	Trace	Chert
5780-5790	90%	Limestone - as above.
	10%	Shale - as above.
5790-5800	80%	Limestone - as above, trace fossile fragments.
	20%	Shale - as above.
5800-5810	90%	Limestone - as above with increasing cream, light tan, microcrystalline, hard, dense, trace fossile fragments.
	10%	Shale - gray, silty as above, trace brown silty as above.
5810-5820	100%	Limestone - becoming predominantly cream, light tan with some white, chalky, hard, dense,
	Trace	Shale - as above.
5820=5830	100%	Limestone - as above.
	Trace	Chert
	Trace	Shale - as above.
5830-5840	90%	Limestone - light gray, microcrystalline, hard, dense, dolomitic, silty in part, trace oolites, trace fossile fragments.
	10%	Shale - gray, silty, micaceous, slightly calcareous.
5840-5850	90%	Limestone - as above.
	10%	Shale - as above
5850-5860	80%	Limestone - medium gray, microcrystalline, silty, dolomitic, hard, dense, trace brown chert.
	20%	Shale - medium gray, gray-brown, firm, silty, dolomitic, trace pyrite.
5860-5870	90%	Limestone - cream to tan to light gray-brown, microcrystalline, hard dense.
	10%	Shale - as above, trace Pyrite.
5870-5880	70%	Limestone - predominantly tan as above with abundant medium gray, microcrystalline, silty, dolomitic,

		hard, dense.
	30%	Shale - as above, some becoming very micaceous.
5880-5890	60%	Limestone - as above.
	40%	Shale - as above.
5890-5900	100%	Limestone - tan, microcrystalline, hard, dense, abundant light tan chert.
	1%	Sandstone - light tan, very fine grain, well sorted, rounded, friable, calcareous.
	Trace	Shale - as above.
5900-5910	100%	Limestone - as above.
	1%	Sandstone - as above.
	Trace	Shale - as above.
5910-5920	100%	Limestone - tan, cryptocrystalline to microcrystalline, hard, dense, cherty.
	Trace	Sandstone - as above.
5920-5930	100%	Limestone - as above.
	Trace	Shale - as above.
5930-5940	90%	Limestone - cream to tan to light gray-brown, microcrystalline to very fine crystalline, silty in part, dolomitic in part, hard, dense, trace fossil fragments, trace oolites, abundant brown chert.
	10%	Shale - medium gray, silty, gray-green, subwaxy, firm, slightly calcareous.
5940-5950	50%	Limestone - as above with increasing gray-brown, silty.
	50%	Shale - as above becoming medium to dark gray, very silty, dolomitic.
5950-5960	100%	Shale - medium to dark gray, very silty, some very sandy, dolomitic, carbonaceous in part.
	Note:	Ca increasing from 32 to 120 indicating thin (4"-6") anhydrite at 5951.
5960-5970	100%	Shale - medium to dark gray, some brown, very silty, some very sandy, dolomitic, carbonaceous in part, some calcareous fracture fill.

5970-5980	100%	Shale - as above, some becoming gray-green,
	Note:	Mud viscosity increasing from 36 to 90 5970-5976 indicating anhydite.
	Trace	Anhydrite - white, soft.
5980=5990	90%	Limestone - gray, gray-brown, microcrystalline, hard, dense, silty, dolomitic.
	10%	Shale - as above.
	Trace	Anhydrite - white, soft.
5990-6000	100%	Limestone - as above.
	Trace	Shale - medium to dark gray as above.
	Trace	Anhydrite - white, soft
6000-6010	Very Poor Samples Abundant Cavings	
Show #1	100%	Limestone - gray, light tan, microcrystalline to very fine crystalline, predominantly hard, dense, with trace P and P, NSOFC, trace fracture, frace fossil fragments.
6010-6020	100%	Limestone - light tan to light gray-brown, cryptocrystalline to microcrystalline, silty in part, dolomitic in part, hard, dense, trace calcite fracture fill, trace oolites, trace fossil fragments.
6020-6030	100%	Limestone - as above.
6030-6040	100%	Limestone - as above with some microcrystalline to very fine crystalline, trace visible P & P.
Show #2		No Fluorescence or cut, trace brown stain on rare fracture faces.
6040-6050	Trip SPL - Predominantly cavings.	
6050-6060	100%	Limestone - becoming predominantly gray-brown, silty, with abundant cream to light tan as above.
6060-6070	60%	Limestone - as above.
	40%	Shale - dark gray, wilty, dolomitic, fissile, firm.
6070-6080	100%	Shale - dark gray- black, silty, dolomitic, fissile, firm
6080-6090	100%	Shale - as above.
6090-6100	100%	Shale - as above.

6100-6110	100%	Shale - dark gray-black, some dark gray-brown, silty, dolomitic to limey, firm, fissile, carbonaceous.
6110-6120	100%	Shale - as above.
6120-6130	90%	Sahle - as above.
	10%	Limestone- tan to cream, microcrystalline, trace fossile fragments.
6130-6140	70%	Shale - as above.
	30%	Limestone - tan, light gray-brown, microcrystalline, some cream, soft, chalky.
	Trace	Anhydrite - white, soft, NSOFC.
6140-6150	40%	Shale - as above.
	60%	Limestone - light tan, cryptocrystalline, hard, dense, with trace fossile fragments, light gray, silty, microcrystalline, hard, dense, dolomitic in part, NSOFC.
	Trace	Anhydrite - white, soft.
6150-6170	10%	Shale - as above.
	90%	Limestone - as above, becoming predominantly light gray, medium tan, silty, dolomitic, abundant fossile fragments.
	Trace	Anhydrite - white, soft, common anhydriee included.
6170-6180	80%	Shale - dark gray-black, firm, silty, limey in part, dolomitic in part.
	20%	Limestone - as above, common anhydrite, white soft.
6180-6190	90%	Shale - as above.
	10%	Limestone - as above, common Anhydrite - as above.
6190-6200	100%	Shale - dark gray-black, firm, silty, limey, dolomitic
6200-6210	90%	Shale - as above.
	10%	Limestone - tan-brown, microcrystalline to very fine crystalline, hard, dense, very silty, some very dolomitic, abundant anhydrite included, common anhydrite white, soft.

6210-6220	40%	Shale - as above.
	30%	Limestone - as above some becoming very dolomitic.
	30%	Dolomite - tan-brown, microcrystalline to very fine crystalline, very silty, with abundant anhydrite included, NSOFC, Anhydrite,white, soft.
6220-6230	20%	Shale - as above.
	30%	Limestone - as above.
	50%	Dolomite - tan-brown as above, some becoming microsucrosic, very silty, abundant mottled anhydrite included, abundant anhydrite, white, soft.
6230-6240	Very Poor Samples - Abundant Cavings.	
	30%	Shale - as above.
	20%	Limestone - as above.
	50%	Dolomite - as above, abundant anhydrite, white, soft.
6240-6250	10%	Shale - as above.
	10%	Limestone - as above.
	80%	Dolomite - becoming medium to dark brown, microcrystalline, hard, dense, with abundant anhydrite included, anhydrite, white, soft.
6250-6260	10%	Shale - as above.
	30%	Limestone - tan to cream, microcrystalline, very silty.
	60%	Dolomite - light brown to brown to tan, microcrystalline to very fine crystalline, microsucrosic very anhydritic with abundant anhydrite included.
6260-6270	100%	Dolomite - as above.
	Trace	Anhydrite - white, soft.
	Trace	Limestone - as above.
	Trace	Shale - as above.
6270-6280	10%	Limestone - light brown - tan as above.
	90%	Dolomite - as above, some becoming limey.

6280-6290	20%	Shale - dark gray to black.
	80%	Dolomite - light brown to tan, microcrystalline to very fine crystalline, hard, dense, with abundant anhydrite included some becoming very limey.
6290-6300	80%	Shale - as above.
	20%	Dolomite - as above, abundant anhydrite.
6300-6310	80%	Shale - as above.
	20%	Dolomite - as above. Abundant anhydrite.
6310-6320	40%	Shale - dark gray to black - as above.
	60%	Dolomite - light tan, microcrystalline, hard, dense, (clean) abundant anhydrite, sandy in part, slightly limey.
6320-6330	80%	Shale - as above.
	80%	Dolomite as above, some becoming medium to dark brown, microcrystalline, hard, dense. Abundant Anhydrite, white, soft.
6330-6339	40%	Shale - as above.
	60%	Dolomite - as above. Abundant anhydrite.

Salt 6335-6339 1 m/ft Drill time.

FORMATION EVALUATIONS

I began geologic responsibility for the Chandler and Associates, Johnson Creek, Federal 6-33 Well in Sec. 33, T 35 S, R 22 E, San Juan County, Utah on 14 October, 1982 at depth 4500. At that time they were drilling in the interbedded reddish orange sands and shales of the Permian Culter Formation.

Honaker Trail Formation — Upper Pennsylvanian
Hermosa Group
4949-5951

The transition from the Permian deposits of the Cutler to the Pennsylvanian deposits of the Honaker Trail was a gradual one with the top of the Honaker Trail picked at the first massive limestone and a general change in the color of the shales from red orange to gray.

The Honaker Trail consisted of a transgressional/regressional sequence of continental deposits of sands, silts, and shales and marine deposits of limestones and shales.

No significant mud gas shows or sample shows were noted in the Honaker Trail.

Conclusion: This zone is of little or no economic interest due to the lack of hydrocarbon shows.

Paradox Formation — Hermosa Group
Pennsylvanian
5951-6339

The Paradox Formation is the middle member of the Hermosa Group and consists of five zones, in descending order: Ismay, Desert Creek, Akah, Barker Creek and Alkali Gulch.

The Johnson Creek Federal 6-33 penetrated the first three zones to a point five feet within the halite of the Akah.

The Upper Ismay zone was picked at 5951 with the encountering of

the first bedded anhydrite. The calcium ion content of the drilling mud increased from 32 ppm to 120 ppm when this bedded anhydrite was penetrated within the Upper Ismay.

The carbonate portion of the Upper Ismay consisted of limestone, light tan to light gray-brown; cryptocrystalline to microcrystalline; silty in part, dolomitic in part; predominantely hard and dense with a trace of calcite fracture filling. A trace to poor intercrystalline porosity and fracture porosity was noted.

A spike-type gas increase of 110 gross unit of gas was noted at depth 6009 - 6011 (driller). A minor drill break was noted at that depth.

No sample show was found to accompany this gas increase.

At depth 6035 (driller) a drill rate increase was noted. This drill break was from five minutes per foot to one and one half to two minutes per foot.

As per directions from the operator a total of seven feet of this drill break was penetrated. Drilling was stopped and the drill break was circulated out. A maximum total gas reading of 320 units was recorded. (full details on show sheet #2) No sample show was noted.

DST #2 was run at depth 6025-6042 (driller).

Seventeen feet of perforated anchor was run below a set of conventional double packers. (Full details on DST report #1)

No further zones of interest were encountered in the wellbone.

The Hoven Weep Shale, Lower Ismay, Gothic Shale, Desert Creek, Chimney Rock Shale and Akah were encountered and penetrated as noted with no unusual circumstances noted.

The salt was encountered at depth 6334 and penetrated to depth 6339.

The Wellbore was circulated and conditioned for Electric logs. The SLM was performed on the trip out of the hole with the results being a TD of 6333.

Dresser-Atlas rigged up and ran the Dual Induction Focused Log to a loggers depth of 6239.

When the Compensated Densilog and Compensated Neutron was run over the zone of interest from 6035 to 6052, an approximate fifteen foot depth of correction was needed to place the noted porosity into its proper position.

Because of the 10 - 12% porosity noted at depth 6020 to 6049 (logger) conflicted with the results of DST #2, the decision was made to run DST #2 over the same zone. This DST has a four hour flow period and a two hour shut in. (Full details on DST sheet #2).

A lower packer failure during the shut-in prevented this DST from being a technical success although it did tend to confirm DST #2 by its fluid recover.

Conclusion: The decision was made to run production casing to T.D.

It is my opinion that the conflicting information between the drill stem tests and the porosity logs could be due to either a low permeability of the formation even though the porosity was quite good, or that the formation was damaged by filtrate water even though the water loss of the drilling fluid was between 8.0 and 6.6 c.c/30 min. at the time the zone of interest was penetrated.

Should there be any way that I can help to further evaluate this well or if there are any questions that you may have please feel free to contact me at any time.

Thank you for your consideration.

L. A. (Larry) Prendergast, Consulting Geologist
187 Reta Drive
Grand Junction, Colorado 81503
303-245-3921

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
1401 Denver Club Bldg, Denver, Colorado 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2047' FWL; 1988' FNL (SE NW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

5. LEASE
U-21256

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
---

7. UNIT AGREEMENT NAME
---

8. FARM OR LEASE NAME
Johnson Creek Fed.

9. WELL NO.
6-33

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 33-35S-22E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30804

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6775' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other) Information Update			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well SI pending installation of pumping equipment.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Marx TITLE Petroleum Engineer DATE 12-1-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Well Test Report # 42955 E

— FOR —

CHANDLER & ASSOCIATES, INC.

Well Name & No.: JOHNSON CREEK FEDERAL #6-33

County SAN JUAN State UTAH

Test No. 2 Date 10-25-82

Location SEC. 33, T35S R22E

DST BASIC DATA Report

Johnston-Macco
A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION

DST BASIC DATA REPORT

TABLE OF CONTENTS

* SEE APPENDIX #3 FOR LOG-LOG AND HORNER PLOTS.

JOHNSTON-MACCO
Schlumberger

WESTERN REGION
1745 STOUT SUITE 300
DENVER, COLORADO 80202
(303) 623-0760

NOVEMBER 19, 1982

INTRODUCTION:

DRILL STEM TEST #2 ON JOHNSON CREEK FEDERAL #6-33 IN SAN JUAN COUNTY, UTAH WAS UNSUCCESSFUL BECAUSE THERE WAS COMMUNICATION OF THE TESTED INTERVAL WITH THE ISOLATED INTERVALS BELOW THE STRADDLE PACKER.

Stephen E Casmus
STEPHEN E. CASMUS
SENIOR SALES ENGINEER
FIELD REPORT #42955 E
TEST #2

JOHNSTON-MACCO
Schlumberger

DST EVENT SUMMARY

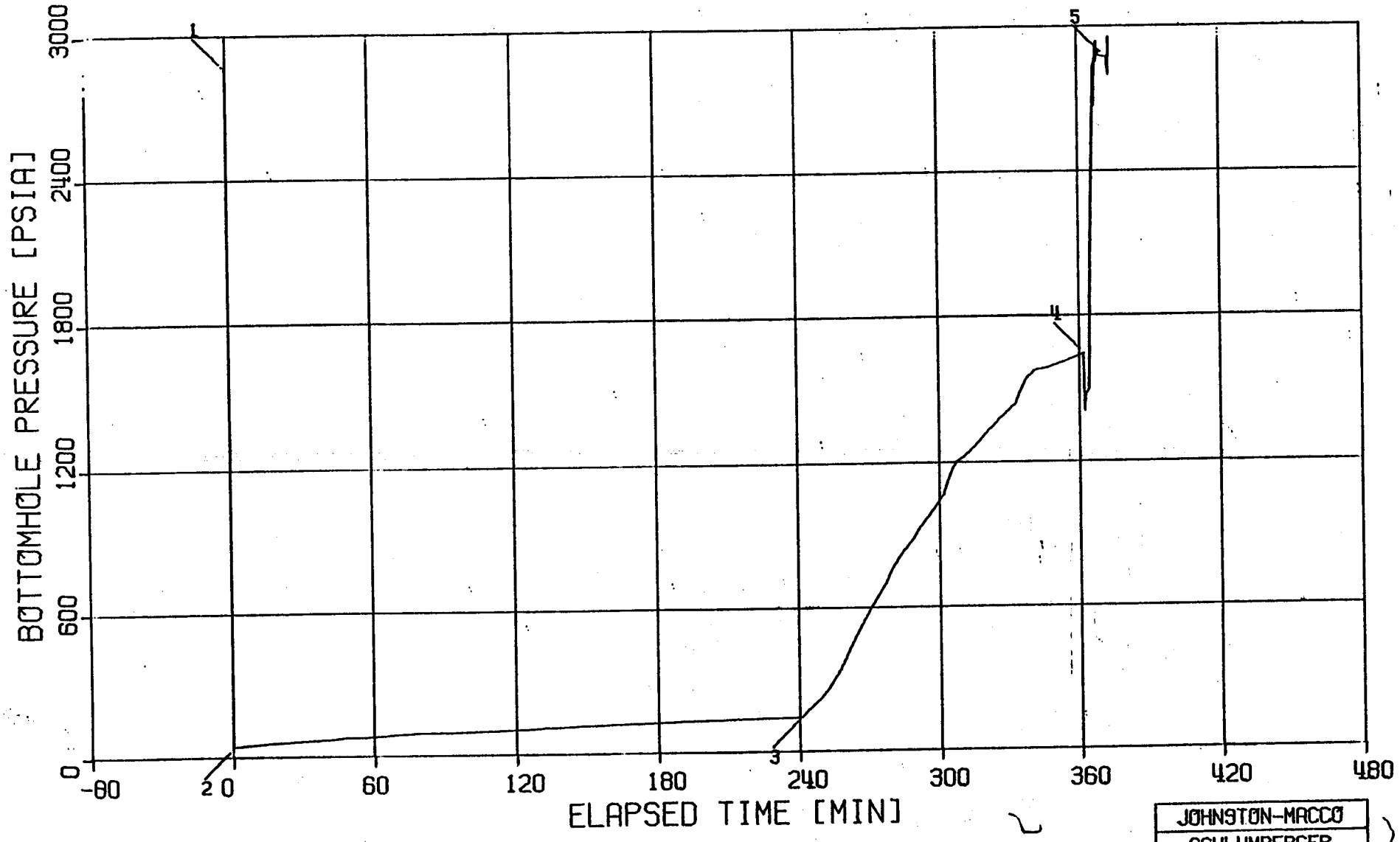
Field Report # 42955 E

DATE (M/D/Y)	TIME (HR:MIN)	EVENT E.T. (MIN)	EVENT DESCRIPTION		SURFACE BLOW (INCHES)	FLOOR MANIFOLD CHOKE SIZE (64ths INCH)
10/25/82	0111	—	SET PACKER	1	-	(BUBBLE HOSE)
	0114	—	OPENED TEST TOOL FOR FLOW	2	BLOW	1/8"
	0116				6 OZ.	"
	0126				7 OZ.	"
	0136				4.5 OZ.	"
	0146				2 OZ.	"
	0156				1/2 OZ.	"
	0206				7"	"
	0226				3"	"
	0246				2 1/4"	"
	0306				1 1/2"	"
	0346				"	"
	0406				1 1/4"	"
	0426				"	"
	0436				1"	"
	0446				"	"
	0456				"	"
	0516	—	CLOSED TEST TOOL FOR SHUT-IN	3		-
	0715	—	FINISHED FINAL SHUT-IN	4		-
	0719	—	UNSEATED PACKER	5	-	-
		—	REVERSED OUT			
		—	BEGAN TRIP OUT OF HOLE			

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 42955E
INSTRUMENT NO. J-1117
DEPTH : 6025 FT
CAPACITY : 4700 PSI
PORT OPENING : OUTSIDE

COMPANY : CHANDLER & ASSOCIATES, INC.
WELL : JOHNSON CREEK FEDERAL #6-33



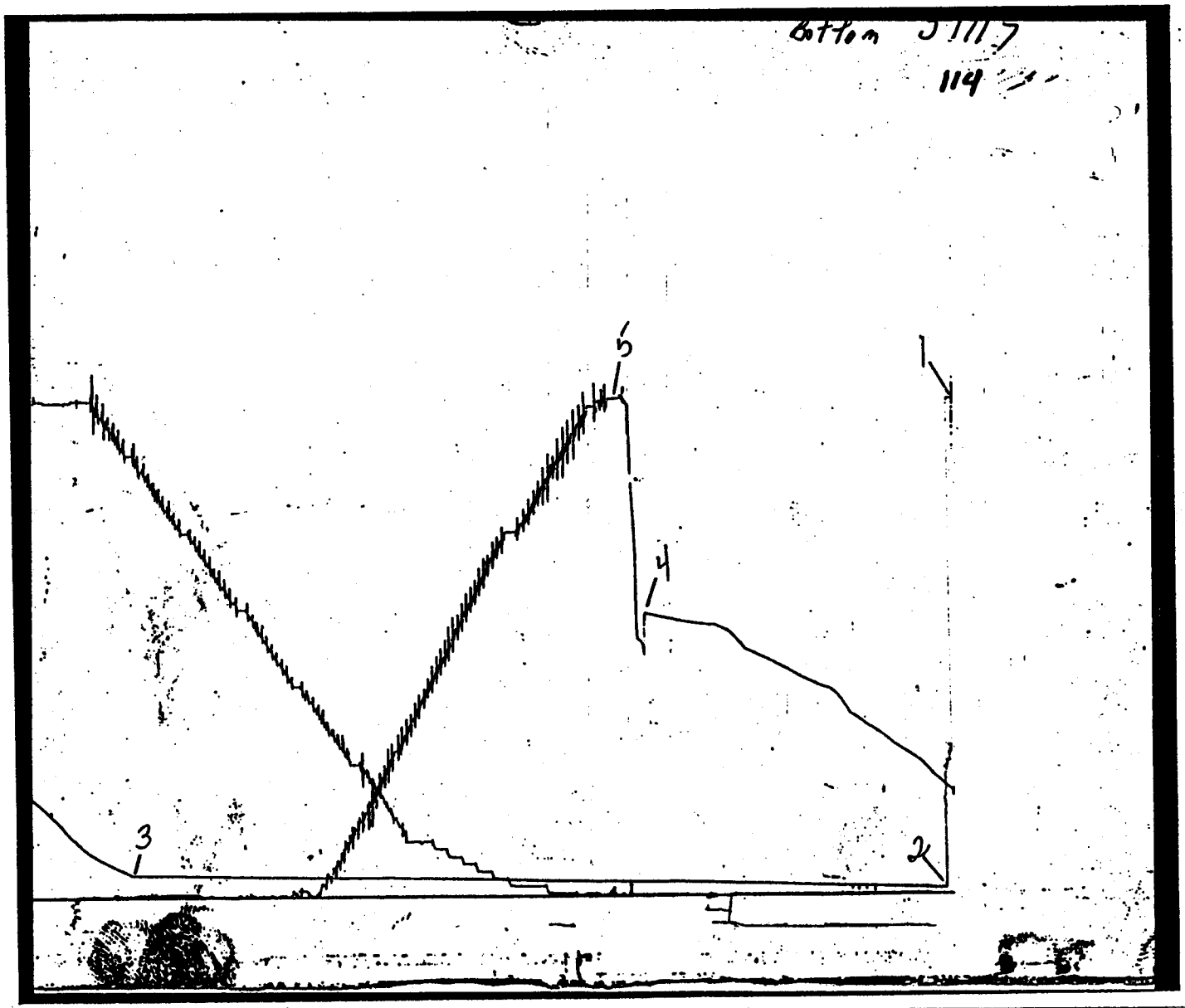
FIELD REPORT NO.: 42955 E

CAPACITY: 4700#

INSTRUMENT NO.: J-1117

NUMBER OF REPORTS: 10

JOHNSTON-MACCO
Schlumberger



JS—167-A

BOTTOM HOLE PRESSURE AND TIME DATA

JS-193-A

JOHNSTON CO
Schlumberger

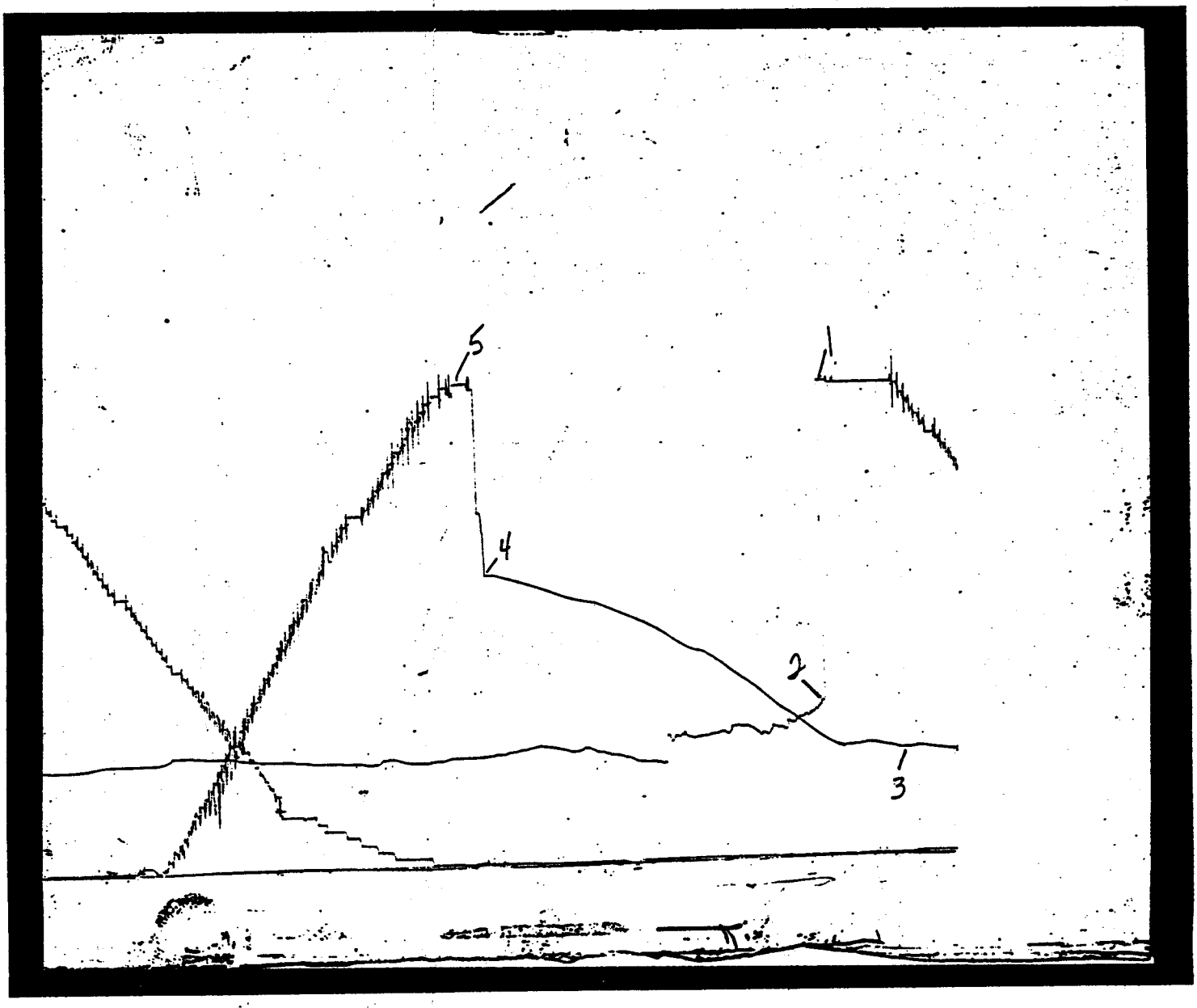
PAGE NUMBER

INSTRUMENT NUMBER	CAPACITY (P.S.I.)	DEPTH
J-1637	4700 P.S.I.	6046'
PORT OPENING	**BOTTOM HOLE TEMPERATURE**	**FIELD REPORT NUMBER**
BELOW	114°F.	42955 E

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1			
INITIAL FLOW (1)				
INITIAL FLOW (2)				
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)	2			
FINAL FLOW (2)	3		242	
FINAL SHUT-IN	4		120	
FINAL HYDROSTATIC MUD	5			

REMARKS:

UNSUCCESSFUL TEST; COMMUNICATION WITH TESTED INTERVAL BELOW STRADDLE PACKER.



JOHNSTON-MACCO
Schlumberger

DST EQUIPMENT CONFIGURATION

Field Report # 42955 E

	COMPONENT	OD (IN)	ID (IN)	LENGTH (FT)	DEPTH (FT)
SURFACE	FLARE (PIT) LINE				
	FLOOR MANIFOLD	—	—	—	—
	FLOW HOSE				—
					—
					—
	CONTROL HEAD				—
	DRILL PIPE ABOVE ROTARY TABLE				R.T.
DRILL PIPE & COLLARS	DRILL PIPE	4.50	3.38	5379	5379
	DRILL COLLARS	4.50	2.75	416	5795
	REVERSE CIRCULATING SUB		2.75	1	
	DRILL COLLARS	4.50	2.75	180	5976
TEST TOOL STRING	X-OVER			1	
	MFE - BYPASS	5.00	.93	13	5978
	JAR			8	
	SAFETY JOINT			2	
	SAFETY SEAL & PACKER			8	6008
	BOBTAIL PACKER			5	6013
	PERFORATION			5	
	RECORDER (J-503)			6	6019
	RECORDER (J-1117)			6	6025
	PERFORATION			8	
	PACKER			5	6043
	BLANKOFF			2	
	RECORDER (J-1637)			6	6046
	SELECTIVE ZONE ANCHOR			6	

CUSHION TYPE	LENGTH (FT)	SURFACE PRESSURE (PSIG)	TOTAL PRESSURE AT TEST TOOL (PSIG)
NONE			

INTERVAL

Type M.F.E.-OPEN HOLE STRADDLE

Size 7 7/8 in

Weight _____ lb/ft

PERFS

Size _____ in Density _____ spf

Gun _____ Total _____ shots

Interval(s) _____ ft

WELL TEST DATA PRINTOUT

FIELD REPORT # : 42955E

COMPANY : CHANDLER & ASSOCIATES, INC.
WELL : JOHNSON CREEK FEDERAL #6-33

INSTRUMENT # : J-1117
CAPACITY [PSI] : 4700.
DEPTH [FT] : 6025.0
PORT OPENING : OUTSIDE
TEMPERATURE [DEG F] : 114.0

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA
1	1:13: 2	25-0C	HYDROSTATIC MUD	-0.97	2875
2	1:14: 0	25-0C	START FLOW	0.00	44
3	5:14:50	25-0C	END FLOW & START SHUT-IN	240.83	143
4	7:16: 0	25-0C	END SHUT-IN	362.00	1647
5	7:25:39	25-0C	HYDROSTATIC MUD	371.65	2880

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	240.83	240.83	44	143

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	240.83	362.00	121.17	143	1647	143	240.83

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
1:14: 0	25-OC	0.00	0.00	44
1:19: 0	25-OC	5.00	5.00	48
1:24: 0	25-OC	10.00	10.00	53
1:29: 0	25-OC	15.00	15.00	56
1:34: 0	25-OC	20.00	20.00	59
1:39: 0	25-OC	25.00	25.00	62
1:44: 0	25-OC	30.00	30.00	65
1:49: 0	25-OC	35.00	35.00	67
1:54: 0	25-OC	40.00	40.00	69
1:59: 0	25-OC	45.00	45.00	74
2: 4: 0	25-OC	50.00	50.00	78
2: 9: 0	25-OC	55.00	55.00	80
2:14: 0	25-OC	60.00	60.00	82
2:19: 0	25-OC	65.00	65.00	85
2:24: 0	25-OC	70.00	70.00	88
2:29: 0	25-OC	75.00	75.00	91
2:34: 0	25-OC	80.00	80.00	93
2:39: 0	25-OC	85.00	85.00	93
2:44: 0	25-OC	90.00	90.00	93
2:49: 0	25-OC	95.00	95.00	95
2:54: 0	25-OC	100.00	100.00	96
2:59: 0	25-OC	105.00	105.00	98
3: 4: 0	25-OC	110.00	110.00	99
3: 9: 0	25-OC	115.00	115.00	101
3:14: 0	25-OC	120.00	120.00	103
3:19: 0	25-OC	125.00	125.00	106
3:24: 0	25-OC	130.00	130.00	109
3:29: 0	25-OC	135.00	135.00	111
3:34: 0	25-OC	140.00	140.00	113
3:39: 0	25-OC	145.00	145.00	115
3:44: 0	25-OC	150.00	150.00	116
3:49: 0	25-OC	155.00	155.00	118
3:54: 0	25-OC	160.00	160.00	120
3:59: 0	25-OC	165.00	165.00	121
4: 4: 0	25-OC	170.00	170.00	123
4: 9: 0	25-OC	175.00	175.00	124
4:14: 0	25-OC	180.00	180.00	125
4:19: 0	25-OC	185.00	185.00	127
4:24: 0	25-OC	190.00	190.00	129
4:29: 0	25-OC	195.00	195.00	131
4:34: 0	25-OC	200.00	200.00	132
4:39: 0	25-OC	205.00	205.00	134
4:44: 0	25-OC	210.00	210.00	135
4:49: 0	25-OC	215.00	215.00	137
4:54: 0	25-OC	220.00	220.00	138
4:59: 0	25-OC	225.00	225.00	140
5: 4: 0	25-OC	230.00	230.00	141
5: 9: 0	25-OC	235.00	235.00	142
5:14: 0	25-OC	240.00	240.00	143

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
5:14:50	25-OC	240.83	240.83	143

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 143
PRODUCING TIME [MIN] = 240.83

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
5:14:50	25-OC	240.83	0.00	143	0	
5:15:50	25-OC	241.83	1.00	154	10	2.384
5:16:50	25-OC	242.83	2.00	164	21	2.084
5:17:50	25-OC	243.83	3.00	174	31	1.910
5:18:50	25-OC	244.83	4.00	183	40	1.787
5:19:50	25-OC	245.83	5.00	193	49	1.692
5:20:50	25-OC	246.83	6.00	202	59	1.614
5:21:50	25-OC	247.83	7.00	212	69	1.549
5:22:50	25-OC	248.83	8.00	221	78	1.493
5:23:50	25-OC	249.83	9.00	231	88	1.443
5:24:50	25-OC	250.83	10.00	243	100	1.399
5:26:50	25-OC	252.83	12.00	266	123	1.324
5:28:50	25-OC	254.83	14.00	298	155	1.260
5:30:50	25-OC	256.83	16.00	332	188	1.206
5:32:50	25-OC	258.83	18.00	369	226	1.158
5:34:50	25-OC	260.83	20.00	413	269	1.115
5:36:50	25-OC	262.83	22.00	455	312	1.077
5:38:50	25-OC	264.83	24.00	493	350	1.043
5:40:50	25-OC	266.83	26.00	530	387	1.011
5:42:50	25-OC	268.83	28.00	567	424	0.982
5:44:50	25-OC	270.83	30.00	603	460	0.956
5:49:50	25-OC	275.83	35.00	685	542	0.897
5:54:50	25-OC	280.83	40.00	781	638	0.846
5:59:50	25-OC	285.83	45.00	852	708	0.803
6: 4:50	25-OC	290.83	50.00	921	778	0.765
6: 9:50	25-OC	295.83	55.00	985	842	0.731
6:14:50	25-OC	300.83	60.00	1056	913	0.700
6:19:50	25-OC	305.83	65.00	1178	1035	0.673
6:24:50	25-OC	310.83	70.00	1229	1086	0.647
6:29:50	25-OC	315.83	75.00	1277	1133	0.624
6:34:50	25-OC	320.83	80.00	1332	1188	0.603
6:39:50	25-OC	325.83	85.00	1381	1238	0.584
6:44:50	25-OC	330.83	90.00	1427	1283	0.565
6:49:50	25-OC	335.83	95.00	1513	1370	0.548
6:54:50	25-OC	340.83	100.00	1576	1433	0.533
6:59:50	25-OC	345.83	105.00	1590	1447	0.518
7: 4:50	25-OC	350.83	110.00	1605	1462	0.504

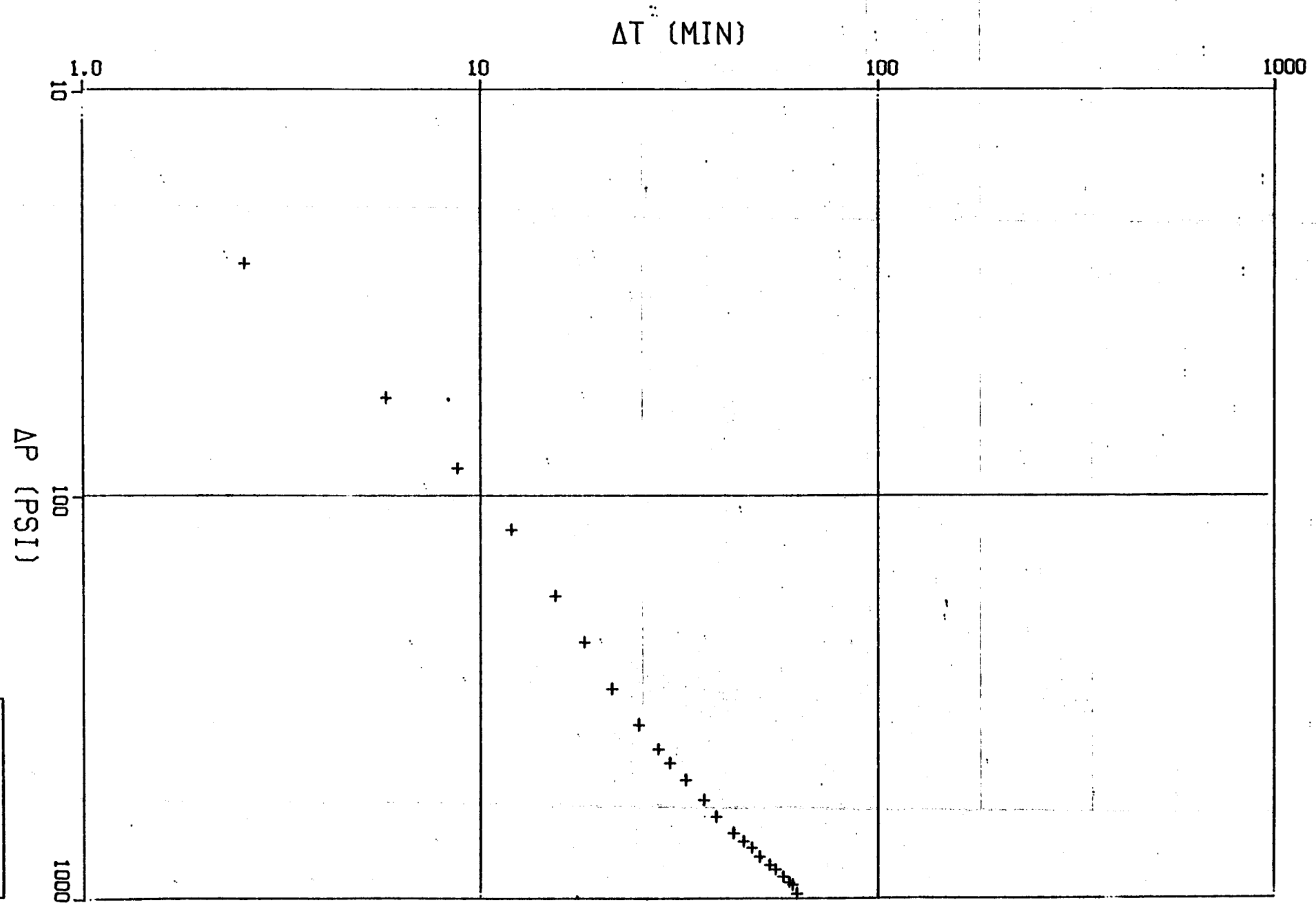
TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 143
PRODUCING TIME [MIN] = 240.83

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
7: 9:50	25-0C	355.83	115.00	1624	1480	0.491
7:14:50	25-0C	360.83	120.00	1643	1500	0.478
7:16: 0	25-0C	362.00	121.17	1647	1504	0.475

LOG LOG PLOT

COMPANY : CHANDLER & ASSOCIATES, INC.
WELL : JOHNSON CREEK FEDERAL #6-33
FIELD REPORT NO. 42955E
INSTRUMENT NO. J-1117

SHUTIN #1 :
FINAL FLOW PRESSURE (P_{WF}): 143 PSIA
PLOT ELAPSED TIME RANGE: 243.4 TO 303.3 MIN
PLOT ΔT TIME RANGE: 2.6 TO 62.5 MIN

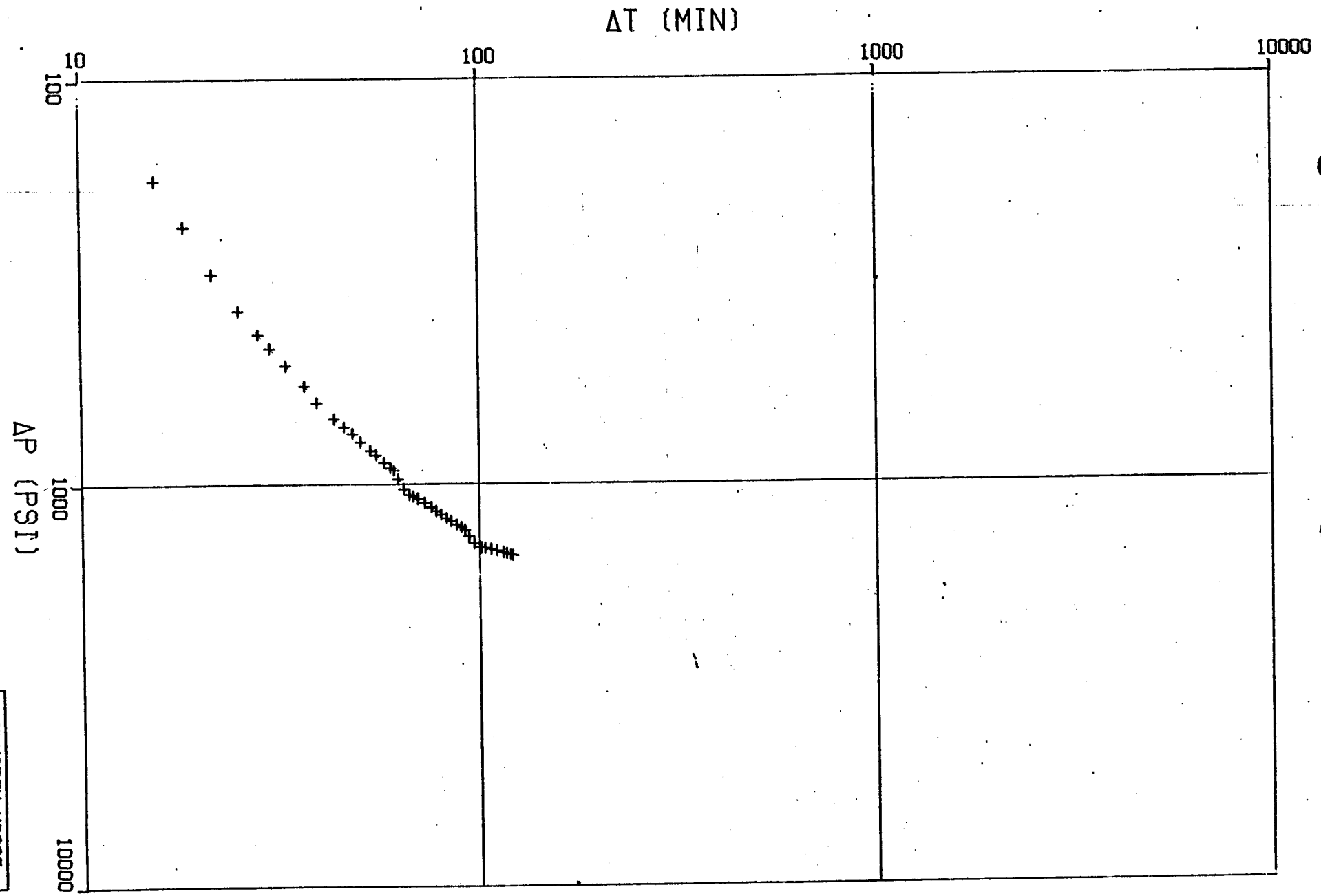


JOHNSTON-MACCO
SCHLUMBERGER

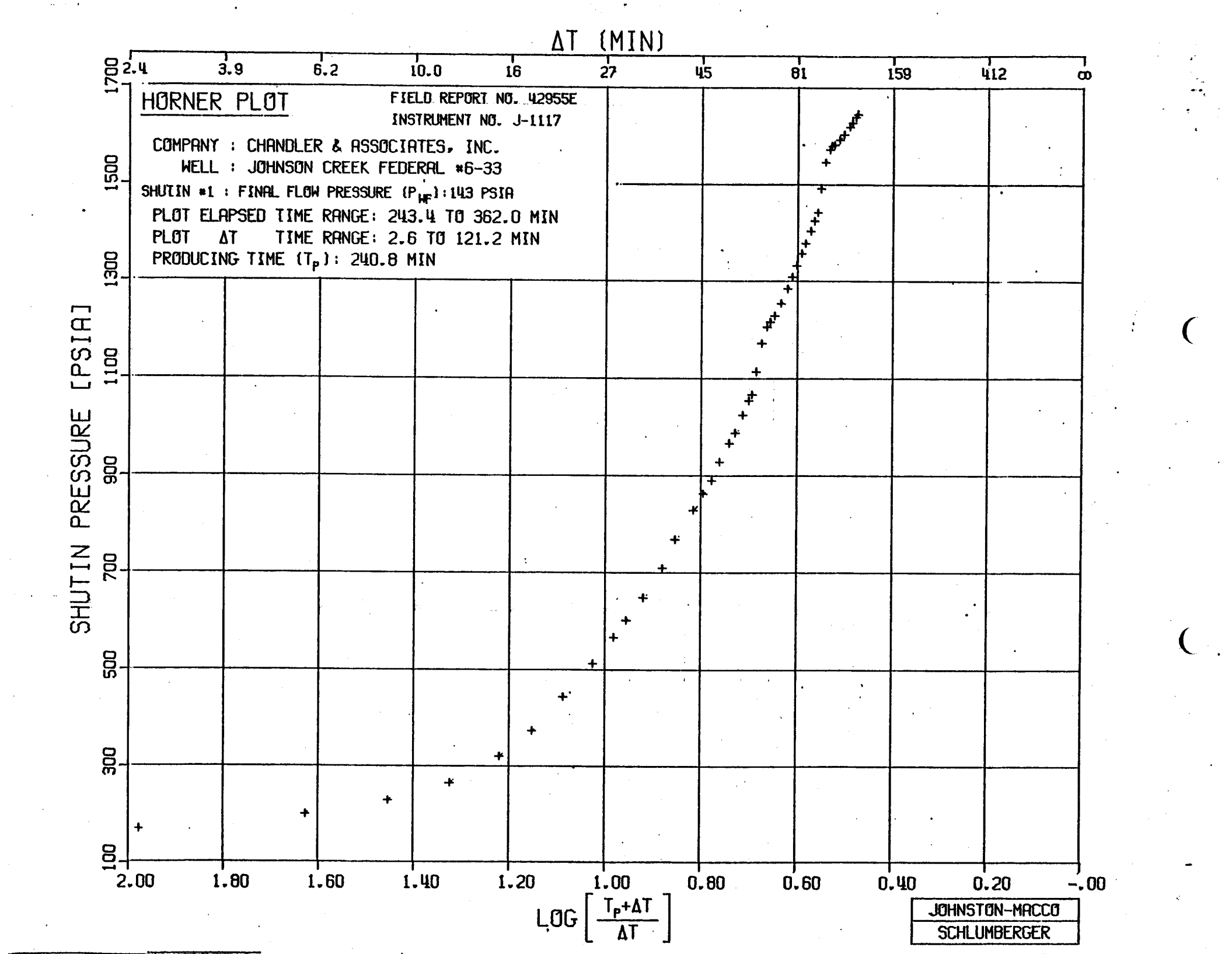
LØG LØG PLØT

COMPANY : CHANDLER & ASSOCIATES, INC.
WELL : JOHNSON CREEK FEDERAL #6-33
FIELD REPORT NO. 42955E
INSTRUMENT NO. J-1117

SHUTIN #1 :
FINAL FLOW PRESSURE (P_{WF}): 143 PSIA
PLOT ELAPSED TIME RANGE: 256.2 TO 362.0 MIN
PLOT ΔT TIME RANGE: 15.4 TO 121.2 MIN



JOHNSTON-MACCO
SCHLUMBERGER


ΔT (MIN)
2.4
3.9
6.2
10.0
16
27
45
81
159
412
∞
HORNER PLOT
FIELD REPORT NO. 42955E
INSTRUMENT NO. J-1117
COMPANY : CHANDLER & ASSOCIATES, INC.
WELL : JOHNSON CREEK FEDERAL #6-33
SHUTIN #1 : FINAL FLOW PRESSURE (P_{WF}): 143 PSIA
PLOT ELAPSED TIME RANGE: 243.4 TO 362.0 MIN
PLOT ΔT TIME RANGE: 2.6 TO 121.2 MIN
PRODUCING TIME (T_p): 240.8 MIN
SHUTIN PRESSURE [PSIA]
1700
1500
1300
1100
900
700
500
300
100
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
-.00
LOG $\left[\frac{T_p+\Delta T}{\Delta T}\right]$
JOHNSTON-MACCO
SCHLUMBERGER

Form 9–331
Dec. 1973

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR
1401 Denver Club Bldg, Denver, Colorado 80202

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2047' FWL; 1988' FNL (SE NW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same

5. LEASE
U-21256

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
---

7. UNIT AGREEMENT NAME
---

8. FARM OR LEASE NAME
Johnson Creek Fed.

9. WELL NO.
6-33

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 33-35S-22E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30804

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6775' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other) Information Update			

RECEIVED
JAN 06 1989
DIVISION OF OIL, GAS & MINING

NOTE: Report results of multiple completion or zone change on Form 9–330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pump testing well for evaluation of potential.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED W.P. Marx TITLE Petroleum Engineer DATE 1-4-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED
FEB 01 1983
DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-21256

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

7. UNIT AGREEMENT NAME: ----

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

8. FARM OR LEASE NAME: Johnson Creek Federal

2. NAME OF OPERATOR: CHANDLER & ASSOCIATES, INC.

9. WELL NO.: 6-33

3. ADDRESS OF OPERATOR: 1401 Denver Club Building, Denver, CO 80202

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)
At surface: 2047' FWL, 1988' FNL (SE NW)
At top prod. interval reported below: same
At total depth: same

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec.33-35S-22E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
API 43 37 30804	8-18-82	San Juan	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9-23-82	10-24-82	Perfed 11-6-82	6786' KB	6775' GR

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6339' KB	6279' KB	--	→	All	--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Ismay 6020-6038' KB

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dual Industion Log, Acoustilog, GR Density-Neutron, Cement Bond Log

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48	502	17½	675 sks	--
5-1/2"	15½	6339	7-7/8	300 sks	--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
n/a				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	6060'	

31. PERFORATION RECORD (*Interval, size and number*)
6250-6260' 0.42", 2 spf, DML XXIII, 21 holes
6225' Cast iron bridge plug
6020-6024' 0.42", 2 spf, DML XXIII, 9 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6250-6260'KB	1000 gal 15% HCl
6225'KB	Cast iron bridge plug
6220-6024'KB	1200 gal 15% HCl, 10,000 gal 28% HCl

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
Perfed 11-6-82	Pumping - 1-3/4" rod pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-9-83	24	--	→	6	--	32	--

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
--	--	→	6	--	32	44.8

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Used for fuel.

TEST WITNESSED BY: Ed Carlson

35. LIST OF ATTACHMENTS: Logs and DST's send by subcontractors.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED William P. Marx TITLE Senior Engineer DATE 1-27-83

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Upper Ismay	5947'KB		DST #1 6010-6027' KG Ismay IF 15", ISI 60", FF 90", FSI 170" Rec. 40' very gas cut mud w/ rainbow oil. Sample Chamber: 0.09 cfg, 30 psi, 760 cc gas cut mud.
Hoven Weep Sh	6055'		
Lower Ismay	6121'		
Goodsik Shale	6164'		
Desert Creek	6194'		
Chimney Rock	6264'		
T.D.	6339'		DST #2 6013-6043'KB Ismay IF 4 hrs, SI 2 hrs Rec. 210' gas cut water and mud. Sample Chamber: 0.05 cfg, 100 psi, 1500 cc water, 100 cc mud

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-780-680/VIII-238

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

November 5, 1983

Chandler & Associates, Inc.
1401 Denver Club Building
Denver, Colorado 80202

RE: Well No. Johnson Creek
Federal #6-33
API # 43-037-30804
Sec. 33, T. 35S, 22E.
San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office January 27, 1983 from the above referred to well, indicates the following electric logs were run: Dual Induction Log, Acoustilog, GR Density-Neutron, Cement Bond Log. As of todays date, this office has not received this log: Cement Bond Log.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Claudia Jones

Claudia Jones
Well Records Specialist

CJ/cj

CHANDLER & ASSOCIATES, INC.
1401 DENVER CLUB BUILDING • DENVER, COLORADO 80202 • 303 629-6756
OIL AND GAS EXPLORATION AND PRODUCTION

December 5, 1983

Claudia Jones
Well Records Specialist
State of Utah
Natural Resources
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Re: Cement Bond Log
Johnson Creek Fed. #6-33
Sec. 33-35S-22E
San Juan County, Utah

Dear Ms. Jones:

As per your letter request of November 5, 1983, enclosed is a copy of the Cement Bond Log for the subject Chandler well. We are sorry for the delay, however we did not have an extra copy of the log and had to contact the subcontractor, Wireline Services Division, to run extra copies for us.

Sincerely,

CHANDLER & ASSOCIATES, INC.

Joyce Nakata

Joyce Nakata
Production Department

PLEASE ACKNOLWEDGE RECEIPT OF THE CEMENT BOND LOG BY SIGNING AND RETURNING A COPY OF THIS LETTER TO THE OPERATOR. THANK YOU.

RECEIVED BY: Claudia Jones DATE: _____

jn
enclosure

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: U-21256

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: --

7. UNIT AGREEMENT NAME: --

8. FARM OR LEASE NAME: Johnson Creek Fed.

9. WELL NO.: 6-33

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 33-T35S-R22E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [XX] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: CHANDLER & ASSOCIATES, INC.

3. ADDRESS OF OPERATOR: 1860 Lincoln, Suite 1400, Denver, CO 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2047' FWL, 198' FNL (SE NW)

14. PERMIT NO.: API 43 037 30804

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6775' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[XX]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Subject well has been evaluated and determined to be nonproductive and noneconomic. Plans to plug and abandon the well are as follows:

1. Notify BLM 48 hrs. prior to actual plugging.
2. Move in and rig up.
3. Pull out of hole w/ tubing.
4. Set CIBP above existing perfs (6020-24', 6250-60') at 6010'.
5. Spot 10 sacks cement on CIBP.
6. Free point, cut and pull casing. (Approx. 4800', cement top at 4820' KB).
7. Fill hole with mud laden fluid, 9 ppg or greater.
8. Set 20 sack plug at bottom of surface casing (502' KB).
9. Set 10 sack plug on top of casing.
10. Cut casing below surface, place cap and dryhole marker.

RECEIVED
JAN 14 1985
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Hugo Cartaya TITLE Petroleum Engineer DATE 1-11-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

(1) Plug should be set @ 5½" csg. stub.

ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 1/17/85
BY: John R. Baza

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
November 1983)
Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.	U-21256
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	---
7. UNIT AGREEMENT NAME	---
8. FARM OR LEASE NAME	Johnson Creek Fed.
9. WELL NO.	6-33
10. FIELD AND POOL, OR WILDCAT	Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 33-T35S-R22E
12. COUNTY OR PARISH	San Juan
13. STATE	Utah

1. OIL WELL [XX] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
CHANDLER & ASSOCIATES, INC.

3. ADDRESS OF OPERATOR
1860 Lincoln, Suite 1400, Denver, Co 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2047' FWL, 198' FNL (SE NW)

14. PERMIT NO.
API 43-037-30804

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6775' GR

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[XX]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Subject well was plugged as follows after notice given to BLM Moab Office:

3-25-85 Pulled out and lay down rods with pump.

3-26-85 Pull out of hole with 2-7/8" tubing. Run in hole and set CIBP at 5950' KB. RIH w/ tubing, tagged CIBP, set tubing in slips. Pumped 9#/gallon mud down tubing and circulate up annulus to surfice. Mixed and pumped a 10 sack cement plug. Spotted cement on CIBP. Wash up lines. POOH and stand back tubing.

3-27-85 Free point and shot casing off at 2928'. POOH and lay down 5-1/2" casing.

3-28-85 Start in hole w/ 2-7/8" tubing to spot cement plugs. Tagged fill at 529' KB. Hole had caved in during night, POOH and lay down tubing. Laid all tubing down except 500'. Mixed and spotted a 20 sack cement plug at 512' KB. POOH w/ tubing. Mixed and spotted another 20 sack plug at 100' KB. Good circulation with cement returns. Mixed and set a 10 sack plug at surface. RD and release rig. (Mud laden fluid between plugs.) Clean up location and install regulation cap and dry hole marker.

Location will be contoured and rehabilitated as weather permits. FINAL REPORT.

18. I hereby certify that the foregoing is true and correct

SIGNED Hugo Cartaya/jn TITLE Petroleum Engineer DATE 4-9-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 4/23/85
BY: Original Signed by John R. Baza

*See Instructions on Reverse Side

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STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 11, 1985

Chandler & Associates, Inc.
1860 Lincoln, Suite 1400
Denver, Colorado 80203

Gentlemen:

Re: Well No. Johnson Creek Federal 6-33, Sec. 33, T. 35S., R. 22E., San Juan County, Utah - API #43-037-30804

According to a Sundry Notice submitted January 11, 1985, the above referenced well is plugged and abandoned. This office has not received the "Sundry Notice" of subsequent abandonment on this well.

Please complete and return the enclosed Form OGC-1b, "Sundry Notices and Reports on Wells" as soon as possible but not later than April 24, 1985.

Thank you for your prompt attention to this matter.

Sincerely,

Pam Kenna

Pam Kenna
Well Records Specialist

Enclosure
cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0170S/13